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STERILITY ASSURANCE · AUDIT TOOLS

# EU GMP Annex 1 (2022)

## Exhaustive Audit Questionnaire

Manufacture of Sterile Medicinal Products · EudraLex Volume 4 · C(2022) 5938 final

A line-by-line self-inspection / audit questionnaire covering every requirement section of EU GMP Annex 1 (2022). Each item states the audit question, the expected outcome with its paragraph reference, a compliance status box, and space to record observations and evidence. Paragraph references are a guide — always verify against the current published text.

Site / facility		Audit reference no.	
Area / line audited		Audit type	
Auditor(s)		Date	
Auditee / SME		Page ___ of ___	

### Status key

**C** = Compliant   **NC** = Non-compliant   **OBS** = Observation   **N/A** = Not applicable

*Tick C or NC in the Status column; for an Observation or N/A, note it in the evidence column.*

### Coverage

**Section 1.** Scope — 2 items

**Section 2.** Principle — 10 items

**Section 3.** Pharmaceutical Quality System (PQS) — 8 items

**Section 4.** Premises — 36 items

**Section 5.** Equipment — 9 items

**Section 6.** Utilities — 22 items

**Section 7.** Personnel — 18 items

**Section 8.** Production and Specific Technologies — 139 items

**Section 9.** Environmental & Process Monitoring — 49 items

**Section 10.** Quality Control (QC) — 11 items

**Total: 304 audit items across 10 sections.**

## Section 1 — Scope

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
1.1	<b>S1</b>	<p><b>Are facilities, equipment, systems and procedures for all sterile products designed and controlled by applying Quality Risk Management (QRM)?</b></p> <p><b>Expected outcome:</b> Design and control apply QRM to prevent microbial, particulate and endotoxin/pyrogen contamination in the final product; any specified limits, frequencies or ranges are treated as minimum requirements.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
1.2	<b>S1</b>	<p><b>Where Annex 1 principles are applied to non-sterile products, is this documented and demonstrated?</b></p> <p><b>Expected outcome:</b> The manufacturer clearly documents which principles are applied and demonstrates compliance with those principles.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 2 — Principle

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
2.1	\$2.1(i)	<p><b>Are facility, equipment and process appropriately designed, qualified/validated and subject to ongoing verification?</b></p> <p><b>Expected outcome:</b> Appropriate technologies (RABS, isolators, robotics, rapid/alternative methods, continuous monitoring) are considered to protect product and aid rapid detection of contaminants.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.2	\$2.1(ii)	<p><b>Do personnel have adequate qualifications, experience, training and behaviour?</b></p> <p><b>Expected outcome:</b> Focus is on the principles of protecting sterile product during manufacturing, packaging and distribution.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.3	\$2.1(iii)	<p><b>Are processes and monitoring systems designed, commissioned, qualified, monitored and reviewed by suitably knowledgeable personnel?</b></p> <p><b>Expected outcome:</b> Personnel have appropriate process, engineering and microbiological knowledge.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.4	\$2.1(iv)	<p><b>Are raw materials and packaging materials adequately controlled and tested?</b></p> <p><b>Expected outcome:</b> Bioburden and endotoxin/pyrogen levels are confirmed suitable for use.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.5	\$2.2	<p><b>Are processes, equipment, facilities and activities managed per QRM with a design-first priority?</b></p> <p><b>Expected outcome:</b> Priority is facility/equipment/process design, then procedures, then monitoring; alternatives are justified by rationale, risk assessment and mitigation; monitoring/testing alone does not assure sterility.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.6	\$2.3	<p><b>Is a Contamination Control Strategy (CCS) implemented across the facility?</b></p> <p><b>Expected outcome:</b> CCS defines all critical control points, assesses effectiveness of all controls and monitoring, is actively reviewed/updated, drives continual improvement and its effectiveness forms part of periodic management review.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.7	\$2.4	<p><b>Is the collective effectiveness of interrelated contamination-control measures considered together?</b></p> <p><b>Expected outcome:</b> Measures are assessed/controlled/monitored individually but their combined effectiveness is evaluated together.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.8	\$2.5	<p><b>Does the CCS consider all required elements?</b></p> <p><b>Expected outcome:</b> CCS addresses plant/process design &amp; documentation, premises &amp; equipment, personnel, utilities, raw material controls, containers/closures, vendor approval, outsourced activities, process risk management, process &amp; sterilisation validation, preventive maintenance, cleaning/disinfection, monitoring systems, prevention mechanisms (trend/RCA/CAPA) and continuous improvement.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
2.9	<a href="#">§2.6</a>	<b>Is the CCS subject to ongoing and periodic review with change impact assessment?</b> <b>Expected outcome:</b> All aspects reviewed with updates in the PQS; changes assessed for impact on the CCS before and after implementation.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
2.10	<a href="#">§2.7</a>	<b>Is sterility assured without sole reliance on any terminal process or finished-product test?</b> <b>Expected outcome:</b> The manufacturer takes all steps/precautions to assure sterility; no sole reliance is placed on a terminal process or finished-product test.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 3 — Pharmaceutical Quality System (PQS)

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
3.1	§3.1(i)	<p><b>Is an effective risk management system integrated into all areas of the product life cycle?</b></p> <p><b>Expected outcome:</b> Aim is to minimize microbial contamination and ensure quality of sterile products.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.2	§3.1(ii)	<p><b>Does the manufacturer have sufficient knowledge and expertise?</b></p> <p><b>Expected outcome:</b> Knowledge covers products, equipment, engineering and manufacturing methods that impact product quality.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.3	§3.1(iii)	<p><b>Is root cause analysis of procedural/process/equipment failure performed effectively?</b></p> <p><b>Expected outcome:</b> Risk to product is correctly identified so that suitable CAPA is implemented.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.4	§3.1(iv)	<p><b>Is risk management applied to the development and maintenance of the CCS?</b></p> <p><b>Expected outcome:</b> Contamination risks are identified, assessed, reduced/eliminated and controlled, with documented rationale including residual risk acceptance.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.5	§3.1(v)	<p><b>Does senior management effectively oversee the state of control?</b></p> <p><b>Expected outcome:</b> Risk management outcomes are reviewed regularly, on change, on emerging problems and during periodic product quality review.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.6	§3.1(vi)	<p><b>Do finishing, storage and transport processes protect the sterile product?</b></p> <p><b>Expected outcome:</b> Container integrity, contamination risk and avoidance of degradation are addressed, with products stored per registered conditions.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.7	§3.1(vii)	<p><b>Do persons certifying/releasing product have appropriate access, knowledge and experience?</b></p> <p><b>Expected outcome:</b> They can determine whether product was made per registered specifications/approved process and is of required quality.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
3.8	§3.2	<p><b>Are non-conformities investigated before certification/release?</b></p> <p><b>Expected outcome:</b> Sterility failures, EM excursions and deviations are investigated for process/product impact and other affected batches; scope inclusion/exclusion is justified and recorded.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 4 — Premises

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
4.1	<b>§4.1</b>	<p><b>Is manufacture carried out in appropriate cleanrooms entered via airlocked change rooms?</b></p> <p><b>Expected outcome:</b> Cleanrooms/change rooms are maintained to appropriate cleanliness, supplied with appropriately filtered air, with scientifically justified controls and monitoring.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.2	<b>§4.2</b>	<p><b>Are component prep, product prep and filling separated appropriately?</b></p> <p><b>Expected outcome:</b> Technical and operational separation within the cleanroom/facility prevents mix-up and contamination.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.3	<b>§4.3</b>	<p><b>Are RABS or isolators considered in the CCS?</b></p> <p><b>Expected outcome:</b> Their use is considered to minimize contamination from human intervention; alternatives are justified.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.4	<b>§4.4</b>	<p><b>Are the four cleanroom grades (A-D) correctly defined and applied?</b></p> <p><b>Expected outcome:</b> Grade A critical zone under localised UDAF within RABS/isolators (qualified across the whole grade A area); grade B background; grade C/D for less critical/terminal operations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.5	<b>§4.5</b>	<p><b>Are all exposed surfaces smooth, impervious and unbroken?</b></p> <p><b>Expected outcome:</b> Surfaces minimize shedding/accumulation of particles or micro-organisms.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.6	<b>§4.6</b>	<p><b>Are recesses minimized to facilitate cleaning?</b></p> <p><b>Expected outcome:</b> Projecting ledges/shelves/cupboards/equipment minimized; doors avoid recesses; sliding doors generally avoided.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.7	<b>§4.7</b>	<p><b>Are cleanroom materials selected to minimize particles and permit repeated disinfection?</b></p> <p><b>Expected outcome:</b> Materials permit repeated application of cleaning, disinfectant and sporicidal agents.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.8	<b>§4.8</b>	<p><b>Are ceilings designed and sealed against contamination from the space above?</b></p> <p><b>Expected outcome:</b> Ceilings prevent contamination from the void above.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.9	<b>§4.9</b>	<p><b>Are sinks and drains prohibited in grade A/B and controlled elsewhere?</b></p> <p><b>Expected outcome:</b> No sinks/drains in grade A/B; air breaks fitted elsewhere; floor drains have traps/water seals, regularly cleaned/disinfected/maintained.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.10	<b>§4.10</b>	<p><b>Is transfer of equipment/materials assessed as a major contamination source?</b></p> <p><b>Expected outcome:</b> Activities that could compromise cleanliness are assessed and, if not eliminable, appropriate controls applied.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
4.11	<b>\$4.11</b>	<p><b>Is transfer into and out of grade A/B unidirectional and validated?</b></p> <p><b>Expected outcome:</b> Items sterilised via double-ended sterilisers where possible; validated alternative transfer processes otherwise; removal via a separate unidirectional process.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.12	<b>\$4.12</b>	<p><b>Are airlocks designed to separate areas and minimize contamination?</b></p> <p><b>Expected outcome:</b> Personnel/material airlocks separated where possible; flushed with filtered air; final stage at same grade at rest; separate change rooms for entering/leaving grade B desirable.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.13	<b>\$4.13</b>	<p><b>Are airlock/pass-through doors interlocked or alarmed appropriately?</b></p> <p><b>Expected outcome:</b> Entry/exit doors not opened simultaneously; interlock for grade A/B; visual/audible warning for grade C/D; time delay where required.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.14	<b>\$4.14</b>	<p><b>Is a filtered air supply maintaining positive pressure/airflow provided?</b></p> <p><b>Expected outcome:</b> <math>\geq 10</math> Pa (guidance) between adjacent grades; critical zone protected; containment modifications applied where needed; air into a critical zone sourced from same/higher grade.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.15	<b>\$4.15</b>	<p><b>Are airflow visualisation studies performed and retained?</b></p> <p><b>Expected outcome:</b> Performed at rest and in operation, demonstrating no lower-to-higher grade ingress; documented; video recordings retained; feed into the EM programme.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.16	<b>\$4.16</b>	<p><b>Are air pressure difference indicators fitted and critical differentials monitored?</b></p> <p><b>Expected outcome:</b> Critical differentials continuously monitored/recorded with a warning system; alarm overrides controlled; alarm delays justified in CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.17	<b>\$4.17</b>	<p><b>Do facilities permit observation of production from outside grade A/B?</b></p> <p><b>Expected outcome:</b> Windows or remote cameras give a full view for observation/supervision without entry.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.18	<b>\$4.18</b>	<p><b>Are isolators/RABS designed to separate grade A from the surrounding room?</b></p> <p><b>Expected outcome:</b> Entry/removal hazards minimized and supported by high-capability transfer technologies or validated systems.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.19	<b>\$4.19</b>	<p><b>Does the barrier design ensure appropriate critical-zone conditions?</b></p> <p><b>Expected outcome:</b> Open isolators: grade A with first air and UDAF; closed isolators: grade A with adequate protection; negative-pressure only where containment essential; RABS: grade A UDAF with first air and positive airflow.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.20	<b>\$4.20</b>	<p><b>Is the background environment for isolators/RABS appropriate and justified?</b></p> <p><b>Expected outcome:</b> Open isolator <math>\geq</math> grade C, closed isolator <math>\geq</math> grade D, RABS (aseptic) <math>\geq</math> grade B; based on risk assessment justified in CCS; airflow studies at open isolator interfaces.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
4.21	\$4.21	<p><b>Are glove systems and their integrity testing controlled?</b></p> <p><b>Expected outcome:</b> Gloves demonstrate mechanical/chemical resistance; replacement frequency in CCS; isolator glove integrity tested at least at start/end of each batch or campaign plus visual checks; RABS gloves sterilised/bio-decontaminated before campaigns.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.22	\$4.22	<p><b>Are decontamination methods for RABS/isolators defined and controlled?</b></p> <p><b>Expected outcome:</b> Cleaning precedes bio-decontamination; agents show no adverse product impact; isolator bio-decontamination automated/validated with sporicidal agent rendering interior free of viable organisms; RABS routine sporicidal disinfection validated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.23	\$4.23	<p><b>Are cleanrooms and clean air equipment qualified to required characteristics?</b></p> <p><b>Expected outcome:</b> Qualified per required environment; appropriate cleanliness in 'at rest' and 'operational' states.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.24	\$4.24	<p><b>Is qualification performed per Annex 15 and differentiated from EM?</b></p> <p><b>Expected outcome:</b> Cleanroom qualification (incl. classification) is clearly differentiated from operational environmental monitoring.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.25	\$4.25	<p><b>Does qualification include the full set of relevant tests?</b></p> <p><b>Expected outcome:</b> Filter leakage/integrity, airflow volume/velocity, air pressure difference, airflow direction/visualisation, microbial airborne/surface, temperature, humidity, recovery and containment leak (per ISO 14644).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.26	\$4.26	<p><b>Is cleanroom classification scheduled and performed correctly?</b></p> <p><b>Expected outcome:</b> Classification measures total particle concentration; scheduled to avoid impact on process/product; initial during simulated operations; reclassification during simulated operations or APS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.27	\$4.27	<p><b>Are total particles <math>\geq 0.5</math> and <math>\geq 5 \mu\text{m}</math> measured against Table 1?</b></p> <p><b>Expected outcome:</b> Measured at rest and in simulated operations within Table 1 limits.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.28	\$4.28	<p><b>Are sampling locations per ISO 14644-1 with additional critical points?</b></p> <p><b>Expected outcome:</b> Minimum locations per ISO 14644-1; additional grade A/B locations; all critical processing points (e.g. point of fill, feeder bowls) evaluated by documented risk assessment.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.29	\$4.29	<p><b>Are 'at rest' and 'in operation' states and clean-up period defined?</b></p> <p><b>Expected outcome:</b> Classification in both states; 'at rest' achieved after a clean-up period (guidance &lt;20 min) determined at qualification and adhered to.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.30	\$4.30	<p><b>Is UDAF air speed justified and within guidance?</b></p> <p><b>Expected outcome:</b> 0.36–0.54 m/s (guidance) homogeneous at the working position unless justified in CCS; correlated with airflow visualisation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
4.31	<b>§4.31</b>	<p><b>Is microbial contamination level determined during qualification (Table 2)?</b></p> <p><b>Expected outcome:</b> Sampling locations by documented risk assessment; Table 2 limits met; both 'at rest' and 'in operation'.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.32	<b>§4.32</b>	<p><b>Is requalification periodic and complete within maximum intervals?</b></p> <p><b>Expected outcome:</b> Includes classification, final-filter integrity, airflow volume, pressure differentials and air velocity/recovery; grade A &amp; B ≤6 months, grade C &amp; D ≤12 months; also after remedial action or significant change.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.33	<b>§4.33</b>	<p><b>Is disinfection performed per a validated written programme?</b></p> <p><b>Expected outcome:</b> Prior cleaning removes surface contamination; more than one disinfectant type; periodic sporicidal agent; monitoring of effectiveness and flora changes.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.34	<b>§4.34</b>	<p><b>Is the disinfection process validated?</b></p> <p><b>Expected outcome:</b> Validation demonstrates suitability/effectiveness for the manner/surface of use and supports in-use expiry of prepared solutions.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.35	<b>§4.35</b>	<p><b>Are grade A/B disinfectants sterile and controlled?</b></p> <p><b>Expected outcome:</b> Grade A/B disinfectants/detergents sterile (grade C/D where CCS requires); in-house dilutions prepared to prevent contamination, monitored, and stored only for a defined period.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
4.36	<b>§4.36</b>	<p><b>Where fumigation/vapour disinfection (e.g. VHP) is used, is it validated?</b></p> <p><b>Expected outcome:</b> Effectiveness of agent and dispersion system understood and validated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 5 — Equipment

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
5.1	\$5.1	<p><b>Is a written, detailed equipment design description available and current?</b></p> <p><b>Expected outcome:</b> Includes P&amp;IDs as appropriate; forms part of the initial qualification package and is kept up to date.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.2	\$5.2	<p><b>Are equipment monitoring requirements defined in URS and alarms managed?</b></p> <p><b>Expected outcome:</b> Requirements defined in URS and confirmed at qualification; alarm events acknowledged and evaluated for trends; critical alarms reviewed immediately.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.3	\$5.3	<p><b>Is equipment designed for maintenance outside the cleanroom where practicable?</b></p> <p><b>Expected outcome:</b> Where in-cleanroom maintenance occurs, precautions (access restriction, protocols, additional cleaning/disinfection/EM) are considered; sterilisation performed after full reassembly where possible.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.4	\$5.4	<p><b>Is the cleaning process validated?</b></p> <p><b>Expected outcome:</b> Validated to remove residue/debris impairing disinfection and to minimize chemical, microbial and particulate contamination prior to disinfection.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.5	\$5.5	<p><b>Are direct and indirect product-contact parts sterilised for aseptic processes?</b></p> <p><b>Expected outcome:</b> Both direct (e.g. filling needles/pumps) and indirect critical parts (e.g. stopper bowls, guides) are sterilised.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.6	\$5.6	<p><b>Are key systems qualified, monitored and maintained with approved return to use?</b></p> <p><b>Expected outcome:</b> Sterilisers, air handling/filtration and water systems are qualified, monitored and on planned maintenance; return to use is approved.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.7	\$5.7	<p><b>Is unplanned maintenance impact on sterility assessed and recorded?</b></p> <p><b>Expected outcome:</b> Where unplanned maintenance affects sterility-critical equipment, impact on product sterility is assessed and recorded.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.8	\$5.8	<p><b>Is conveyor transfer between grades controlled?</b></p> <p><b>Expected outcome:</b> A conveyor belt does not pass a partition between grade A/B and a lower-cleanliness area unless continually sterilised (e.g. sterilising tunnel).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
5.9	\$5.9	<p><b>Are particle counters and sampling systems qualified?</b></p> <p><b>Expected outcome:</b> Counters/tubing qualified; tube typically <math>\leq 1</math> m with minimized bends; portable counters for classification; isokinetic heads used and correctly oriented in UDAF.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 6 — Utilities

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
6.1	§6.1	<p><b>Are utility controls commensurate with risk and documented in the CCS?</b></p> <p><b>Expected outcome:</b> Nature/extent of controls determined by risk assessment and documented in the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.2	§6.2	<p><b>Are higher-risk utilities identified?</b></p> <p><b>Expected outcome:</b> Utilities that directly contact product, contact materials that become product, contact product-contact surfaces, or otherwise directly impact product are identified as higher risk.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.3	§6.3	<p><b>Are utilities designed, installed, qualified, operated, maintained and monitored?</b></p> <p><b>Expected outcome:</b> The utility system functions as expected across its lifecycle.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.4	§6.4	<p><b>Are high-risk utility critical parameters/CQAs trend analysed?</b></p> <p><b>Expected outcome:</b> Results subject to regular trend analysis to confirm continued system capability.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.5	§6.5	<p><b>Are utility installation records maintained throughout the lifecycle?</b></p> <p><b>Expected outcome:</b> Current drawings/schematics, construction materials, specifications, pipeline details, tanks/vessels, valves/filters/drains/sampling/user points.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.6	§6.6	<p><b>Are pipes/ducts kept out of cleanrooms where possible?</b></p> <p><b>Expected outcome:</b> Where unavoidable, installed without recesses/unsealed openings/difficult surfaces, allowing cleaning/disinfection of outer surfaces.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.7	§6.7	<p><b>Is the water treatment/distribution system designed to prevent contamination?</b></p> <p><b>Expected outcome:</b> Designed/qualified/monitored to prevent microbial contamination and minimize particulate/endotoxin (e.g. sloped piping, no dead legs); filters monitored; water meets the relevant Pharmacopeia monograph.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.8	§6.8	<p><b>Are water systems qualified/validated including seasonal variation?</b></p> <p><b>Expected outcome:</b> Maintain appropriate physical, chemical and microbial control accounting for seasonal variation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.9	§6.9	<p><b>Is turbulent flow maintained and flow rate monitored?</b></p> <p><b>Expected outcome:</b> Water flow remains turbulent to minimize biofilm; flow rate established at qualification and routinely monitored.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.10	§6.10	<p><b>Is WFI produced, stored and distributed appropriately?</b></p> <p><b>Expected outcome:</b> Produced by distillation or an equivalent process; stored/distributed to minimize microbial growth (e.g. constant circulation &gt;70°C).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
6.11	<b>\$6.11</b>	<b>Are WFI tank vent filters controlled?</b> <b>Expected outcome:</b> Hydrophobic vent filters not a contamination source; integrity tested before installation and after use; condensation prevented (e.g. heating).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.12	<b>\$6.12</b>	<b>Is water system sanitisation scheduled and verified before release?</b> <b>Expected outcome:</b> Sterilisation/disinfection/regeneration on a schedule and as remedial action; chemical disinfection followed by validated rinsing; testing after; results approved before returning to use/release.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.13	<b>\$6.13</b>	<b>Is ongoing chemical/microbial water monitoring performed?</b> <b>Expected outcome:</b> Regular monitoring against compendial expectations; alert levels from qualification, periodically reassessed; sampling all outlets/points of use with ≥1 representative daily sample of manufacturing water.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.14	<b>\$6.14</b>	<b>Are water alert/action limit excursions investigated?</b> <b>Expected outcome:</b> Alert excursions documented/reviewed/investigated (isolated vs trend); action limit excursions root-caused with product/process impact assessed.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.15	<b>\$6.15</b>	<b>Does the WFI system include continuous monitoring?</b> <b>Expected outcome:</b> Continuous monitoring such as TOC and conductivity, with risk-based sensor locations.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.16	<b>\$6.16</b>	<b>Is pure/clean steam generation controlled?</b> <b>Expected outcome:</b> Feed water appropriately purified; generator designed/qualified/operated so steam meets defined chemical and endotoxin levels.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.17	<b>\$6.17</b>	<b>Is steam used as a direct sterilising agent of suitable quality?</b> <b>Expected outcome:</b> No contaminating additives; condensate meets the WFI monograph; representative sampling; non-condensable gases, dryness value and superheat assessed against validated parameters.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.18	<b>\$6.18</b>	<b>Are product-contact gases of appropriate quality?</b> <b>Expected outcome:</b> Appropriate chemical/particulate/microbial quality; all parameters (incl. oil and water content) specified per use, generation design and Pharmacopeia/product requirements.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.19	<b>\$6.19</b>	<b>Are gases in aseptic processes filtered and controlled?</b> <b>Expected outcome:</b> Filtered through a sterilising grade filter (max 0.22 µm) at point of use; batch/vent filters integrity tested and reviewed at release; post-filter pipework sterilised; periodic microbial monitoring at point of use.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.20	<b>\$6.20</b>	<b>Is backflow from vacuum/pressure systems prevented?</b> <b>Expected outcome:</b> Mechanism(s) prevent backflow when the vacuum/pressure system is shut off where backflow poses a risk.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
6.21	<b>§6.21</b>	<b>Are hydraulic/heating/cooling major items located outside the filling room?</b> <b>Expected outcome:</b> Located outside where possible, with controls to contain spillage and cross-contamination from system fluids.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
6.22	<b>§6.22</b>	<b>Are leaks from these systems detectable?</b> <b>Expected outcome:</b> Leaks presenting product risk are detectable (e.g. a leakage indication system).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 7 — Personnel

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
7.1	<b>\$7.1</b>	<p><b>Are there sufficient, suitably qualified and experienced personnel?</b></p> <p><b>Expected outcome:</b> Sufficient trained/experienced personnel for the manufacture and testing of sterile products and the specific technologies used.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.2	<b>\$7.2</b>	<p><b>Is the number of personnel in cleanrooms minimized and a maximum set?</b></p> <p><b>Expected outcome:</b> Only the minimum required present; a documented maximum determined and considered during qualification and APS so as not to compromise sterility assurance.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.3	<b>\$7.3</b>	<p><b>Do all cleanroom-access personnel receive regular training and assessment?</b></p> <p><b>Expected outcome:</b> Regular training, gowning qualification and assessment covering microbiology/hygiene basics, cleanroom practices, contamination control, aseptic technique and patient safety implications; level based on criticality.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.4	<b>\$7.4</b>	<p><b>Is aseptic gowning qualification confirmed and periodically reassessed?</b></p> <p><b>Expected outcome:</b> Grade A/B personnel trained in aseptic gowning/behaviour; confirmed by visual and microbial assessment at least annually; unsupervised access restricted to qualified staff who passed gowning and a successful APS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.5	<b>\$7.5</b>	<p><b>Is entry of unqualified personnel to grade A/B controlled?</b></p> <p><b>Expected outcome:</b> Unqualified personnel do not enter grade B or grade A in operation except via written exceptional procedures, with supervision by an authorised person, impact assessment and recording per PQS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.6	<b>\$7.6</b>	<p><b>Is there a disqualification and requalification system?</b></p> <p><b>Expected outcome:</b> Disqualification based on adverse monitoring trends or a failed APS; retraining/requalification (incl. APS participation where relevant) before returning to aseptic work.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.7	<b>\$7.7</b>	<p><b>Are hygiene standards and health reporting enforced?</b></p> <p><b>Expected outcome:</b> High personal hygiene; personnel report health conditions increasing shedding; competent-person guidance and procedures for undue microbial hazards.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.8	<b>\$7.8</b>	<p><b>Are personnel handling tissue/cultures controlled?</b></p> <p><b>Expected outcome:</b> Those handling human/animal tissue or other cultures do not enter clean areas unless defined, effective decontamination/entry procedures are followed and documented.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.9	<b>\$7.9</b>	<p><b>Are prohibited personal items excluded from clean areas?</b></p> <p><b>Expected outcome:</b> No wristwatches, make-up, jewellery, mobile phones or non-essential items; manufacturer-supplied, cleanable cleanroom electronics are a controlled exception in the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
7.10	<b>\$7.10</b>	<p><b>Is gowning and hand washing performed per written procedure?</b></p> <p><b>Expected outcome:</b> Designed to minimize contamination of cleanroom clothing and transfer of contaminants.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.11	<b>\$7.11</b>	<p><b>Is clothing appropriate, checked and qualified?</b></p> <p><b>Expected outcome:</b> Clothing appropriate to process/grade; visually checked before/after gowning and on exit; sterilised garments within hold time with integral packaging; reusable garments replaced if damaged or at a qualified frequency; garment qualification includes testing.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.12	<b>\$7.12</b>	<p><b>Is clothing chosen to limit shedding?</b></p> <p><b>Expected outcome:</b> Clothing limits shedding due to operator movement.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.13	<b>\$7.13</b>	<p><b>Is grade-specific clothing worn as described?</b></p> <p><b>Expected outcome:</b> Grade B (incl. grade A interventions) fully sterilised gowning (headgear, mask, goggles, over-boots, double sterile gloves); grade C and D as specified; additional gowning in C/D per CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.14	<b>\$7.14</b>	<p><b>Is gowning performed in appropriately graded change rooms?</b></p> <p><b>Expected outcome:</b> No outdoor clothing/socks into change rooms leading to grade B/C; facility suits/socks worn before entry; suits/socks not a contamination risk.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.15	<b>\$7.15</b>	<p><b>Does each grade B/A entry use fresh sterilised garments?</b></p> <p><b>Expected outcome:</b> Every operator gowns into clean, sterilised garments (incl. eye coverings, masks) at each entry; maximum wear period defined in garment qualification.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.16	<b>\$7.16</b>	<p><b>Are gloves disinfected and damaged garments changed immediately?</b></p> <p><b>Expected outcome:</b> Gloves regularly disinfected during operations; garments/gloves changed immediately if damaged and presenting contamination risk.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.17	<b>\$7.17</b>	<p><b>Is reusable cleanroom clothing laundered under a qualified process?</b></p> <p><b>Expected outcome:</b> Laundered in a segregated facility using a qualified process preventing damage/contamination; inspected after washing; maximum laundry/sterilisation cycles defined.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
7.18	<b>\$7.18</b>	<p><b>Are non-critical activities and movements minimized?</b></p> <p><b>Expected outcome:</b> Non-critical activities minimized; movement slow/controlled/methodical; aseptic technique maintained; movement adjacent to the critical zone restricted; first air not obstructed; airflow visualisation reviewed in training.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 8 — Production and Specific Technologies

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#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.1	§8.1	<p><b>Is component/material preparation for terminally sterilised products in the correct grade?</b></p> <p><b>Expected outcome:</b> At least grade D (at least grade C for high/unusual microbial risk; ointments/creams/suspensions/emulsions at least grade C before terminal sterilisation).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.2	§8.2	<p><b>Are primary containers/components cleaned by validated processes?</b></p> <p><b>Expected outcome:</b> Particle, endotoxin/pyrogen and bioburden contamination appropriately controlled.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.3	§8.3	<p><b>Is filling of products for terminal sterilisation in at least grade C?</b></p> <p><b>Expected outcome:</b> Filling carried out in at least a grade C environment.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.4	§8.4	<p><b>Is unusual-risk filling performed in grade A with grade C background?</b></p> <p><b>Expected outcome:</b> Where the CCS identifies unusual environmental risk (slow filling, wide-necked or exposed containers), product is filled in grade A with at least a grade C background.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.5	§8.5	<p><b>Is a bulk filtration step and max prep-to-fill time applied?</b></p> <p><b>Expected outcome:</b> A microorganism-retaining filtration step reduces bioburden/particles where possible, with a maximum permissible time between preparation and filling.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.6	§8.6	<p><b>Are terminally sterilised operations mapped to grades per Table 3?</b></p> <p><b>Expected outcome:</b> Operations assigned to grades A/C/D per Table 3.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.7	§8.7	<p><b>Is the aseptic process clearly defined with controlled risks?</b></p> <p><b>Expected outcome:</b> Risks identified, assessed and controlled; CCS defines acceptance criteria and monitoring; residual risks formally documented.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.8	§8.8	<p><b>Are contamination precautions applied through all aseptic stages?</b></p> <p><b>Expected outcome:</b> Precautions per CCS during preparation of the aseptic environment and all stages until final container sealing; particle/fibre-generating materials minimized.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.9	§8.9	<p><b>Are RABS/isolators/robotics used to reduce critical interventions?</b></p> <p><b>Expected outcome:</b> Considered to reduce the need for critical interventions into grade A and minimize contamination.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.10	§8.10	<p><b>Are aseptic operations mapped to grades per Table 4?</b></p> <p><b>Expected outcome:</b> Operations assigned to grades A/B/C/D per Table 4.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.11	§8.11	<p><b>For non-filterable final formulations, are alternative controls applied?</b></p> <p><b>Expected outcome:</b> Product/component contact equipment sterilised; raw materials/intermediates sterilised and aseptically added; bulk solutions/intermediates sterilised.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.12	§8.12	<p><b>Is unwrapping/assembly and line set-up/filling performed in grade A/B?</b></p> <p><b>Expected outcome:</b> Treated as aseptic processes performed in grade A with a grade B background (isolator background per §4.20).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.13	§8.13	<p><b>Is aseptic prep/filling of ointments/creams/suspensions/emulsions in grade A/B?</b></p> <p><b>Expected outcome:</b> Performed in grade A with grade B background when exposed and not subsequently filtered or terminally sterilised (isolator/RABS per §4.20).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.14	§8.14	<p><b>Are aseptic connections performed and verified appropriately?</b></p> <p><b>Expected outcome:</b> In grade A with grade B background unless sterilised in place or made with intrinsic sterile connection devices; effectiveness assessed and verified.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.15	§8.15	<p><b>Are aseptic manipulations minimized by engineering design?</b></p> <p><b>Expected outcome:</b> Preassembled and sterilised equipment used; product-contact piping pre-assembled and sterilised in place wherever feasible.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.16	§8.16	<p><b>Is there an authorised list of qualified interventions?</b></p> <p><b>Expected outcome:</b> Allowed inherent and corrective interventions authorised, designed to minimize contamination, evaluated via risk management and APS; non-qualified interventions only exceptionally with QA authorisation, risk-assessed, recorded and investigated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.17	§8.17	<p><b>Are interventions and stoppages recorded in the batch record?</b></p> <p><b>Expected outcome:</b> Each stoppage/intervention documented with associated time, duration and operators involved.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.18	§8.18	<p><b>Are aseptic processing durations minimized and validated?</b></p> <p><b>Expected outcome:</b> Defined validated maximum times for holding, sterilised-equipment/component/container use, decontaminated-environment use, prep-to-sterilisation/filtration, sterilised-product holding, aseptic processing and filling times.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.19	§8.19	<p><b>Are aseptic operations regularly observed by experts?</b></p> <p><b>Expected outcome:</b> Observed on a regular basis by personnel with aseptic-processing expertise to verify correct performance and address inappropriate practices.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.20	§8.20	<p><b>Are open primary packaging containers maintained under grade A?</b></p> <p><b>Expected outcome:</b> Maintained under grade A with the appropriate background for the technology (§4.20).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.21	§8.21	<p><b>Are final containers closed by validated methods?</b></p> <p><b>Expected outcome:</b> Closure achieved by appropriately validated methods.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.22	§8.22	<p><b>Is container closure integrity of fusion-sealed containers controlled?</b></p> <p><b>Expected outcome:</b> Critical seal parameters controlled/monitored; glass ampoules, BFS units and containers ≤100 ml 100% integrity tested; &gt;100 ml reduced sampling only if scientifically justified; visual inspection is not an acceptable integrity test.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.23	§8.23	<p><b>Is integrity of non-fusion systems checked by validated methods?</b></p> <p><b>Expected outcome:</b> Samples checked using validated methods with a scientifically justified sampling plan based on knowledge/experience and component specifications.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.24	§8.24	<p><b>Are vacuum-sealed containers tested for vacuum maintenance?</b></p> <p><b>Expected outcome:</b> Tested after a predetermined period prior to release and during shelf life.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.25	§8.25	<p><b>Does CCIT validation consider transport/shipping impact?</b></p> <p><b>Expected outcome:</b> Considers transportation/shipping (e.g. decompression, extreme temperatures) that may affect integrity.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.26	§8.26	<p><b>Is vial-capping particle generation controlled?</b></p> <p><b>Expected outcome:</b> Where large non-viable particle quantities may be generated, measures such as a separate station with adequate air extraction are used.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.27	§8.27	<p><b>Is vial capping performed under appropriate conditions?</b></p> <p><b>Expected outcome:</b> Aseptic (sterilised caps) or clean process; vials protected by grade A conditions/air supply until crimped; background at least grade D; manual capping in grade A isolator or grade A with grade B background.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.28	§8.28	<p><b>Are missing/displaced stoppers rejected before clean-process capping?</b></p> <p><b>Expected outcome:</b> Vials with missing/displaced stoppers rejected prior to capping; qualified automated stopper-height detection in place.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.29	§8.29	<p><b>Are capping-station human interventions controlled?</b></p> <p><b>Expected outcome:</b> Appropriate technological/organisational measures prevent direct contact and minimize contamination; RABS/isolators may assist.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.30	§8.30	<p><b>Are all filled parenteral containers inspected and defects managed?</b></p> <p><b>Expected outcome:</b> 100% individual inspection; defect classification/criticality by risk; batch defect trending; a maintained defect library used for training; critical defects investigated if found later.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.31	§8.31	<p><b>Is manual inspection controlled and operators qualified?</b></p> <p><b>Expected outcome:</b> Controlled illumination/background; qualified inspection rates; operator visual inspection qualification at least annually using defect-library samples and worst cases; eyesight checks; minimized distractions and appropriate breaks.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.32	§8.32	<p><b>Is automated inspection validated and challenged?</b></p> <p><b>Expected outcome:</b> Validated to detect known defects at least equal to manual inspection; challenged with representative defects before start-up and at intervals.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.33	<b>§8.33</b>	<p><b>Are inspection results recorded and trended?</b></p> <p><b>Expected outcome:</b> Results recorded; defect types/numbers and reject levels trended on statistical principles; market impact assessed on adverse trends.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.34	<b>§8.34</b>	<p><b>Is terminal sterilisation used where possible?</b></p> <p><b>Expected outcome:</b> Finished product terminally sterilised where possible (greater assurance than filtration/aseptic); post-aseptic terminal heat treatment considered where terminal sterilisation is not possible.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.35	<b>§8.35</b>	<p><b>Is sterilisation equipment/cycle selection science-based?</b></p> <p><b>Expected outcome:</b> Selection, design and location based on scientific principles/data demonstrating repeatability/reliability; parameters defined and, where critical, controlled/monitored/recorded.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.36	<b>§8.36</b>	<p><b>Are all sterilisation processes validated?</b></p> <p><b>Expected outcome:</b> Validated considering composition, storage and max time to sterilisation; suitability/efficacy demonstrated for all load parts via physical measurements and, where appropriate, BIs.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.37	<b>§8.37</b>	<p><b>Is special attention given to non-compendial methods?</b></p> <p><b>Expected outcome:</b> Particular attention where the method is not in the current Pharmacopoeia or used for a non-simple aqueous solution; heat sterilisation is the method of choice where possible.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.38	<b>§8.38</b>	<p><b>Are validated loading patterns established and revalidated?</b></p> <p><b>Expected outcome:</b> Validated load patterns for all processes with periodic revalidation; max and min loads considered.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.39	<b>§8.39</b>	<p><b>Is sterilising-process validity reviewed at intervals?</b></p> <p><b>Expected outcome:</b> Reviewed/verified at risk-based intervals; heat cycles revalidated at least annually for worst-case load patterns; other loads at a CCS-justified frequency.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.40	<b>§8.40</b>	<p><b>Are routine operating parameters established and followed?</b></p> <p><b>Expected outcome:</b> Physical parameters and loading patterns established and adhered to for all sterilisation processes.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.41	<b>§8.41</b>	<p><b>Are non-conforming sterilisation cycles detected and investigated?</b></p> <p><b>Expected outcome:</b> Mechanisms detect cycles not conforming to validated parameters; failed/deviated cycles investigated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.42	<b>§8.42</b>	<p><b>Are biological indicators used and controlled appropriately?</b></p> <p><b>Expected outcome:</b> BIs at appropriate locations support validation; stored/used per instructions; positive controls each cycle (e.g. EO); precautions prevent contamination transfer; BI results alone do not override critical parameters.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.43	<b>§8.43</b>	<p><b>Is BI reliability assured?</b></p> <p><b>Expected outcome:</b> Suppliers qualified; transport/storage controlled; population, purity and identity of a new BI batch verified before use; other critical parameters (D-, Z-value) may use the qualified supplier certificate.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.44	<b>§8.44</b>	<p><b>Are sterilised and non-sterilised items clearly differentiated?</b></p> <p><b>Expected outcome:</b> Clear labelling/electronic tracking indicating sterilised status; indicators (e.g. autoclave tape) show only that the process occurred, not sterility or SAL.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.45	<b>§8.45</b>	<p><b>Are sterilisation records available and reviewed at release?</b></p> <p><b>Expected outcome:</b> Records for each run with a unique cycle identifier; conformity reviewed/approved as part of batch certification/release.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.46	<b>§8.46</b>	<p><b>Are items sterilised by validated methods with post-sterilisation protection?</b></p> <p><b>Expected outcome:</b> Validated methods appropriate to material; protection against recontamination; maximum hold time for stored sterilised items; sealed-packaging process performed before sterilisation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.47	<b>§8.47</b>	<p><b>Is transfer of sealed sterilised items into grade A validated?</b></p> <p><b>Expected outcome:</b> Via validated methods (airlocks/pass-throughs) with exterior disinfection; RTP technology considered; effectiveness in controlling contamination demonstrated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.48	<b>§8.48</b>	<p><b>Is sterile packaging qualified and its sealing validated?</b></p> <p><b>Expected outcome:</b> Packaging qualified to minimize contamination and for compatibility with the sterilisation method; sealing process validated; integrity of the sterile barrier checked before use.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.49	<b>§8.49</b>	<p><b>Are non-sterilisable necessary items disinfected and transferred by validated processes?</b></p> <p><b>Expected outcome:</b> Effective validated disinfection/transfer; protection against recontamination; included in the EM programme.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.50	<b>§8.50</b>	<p><b>Is each heat sterilisation cycle recorded with safeguards?</b></p> <p><b>Expected outcome:</b> Recorded with suitable accuracy/precision; safeguards/redundancy (e.g. duplex probes to independent control/monitoring) detect and abort/fail non-conforming cycles.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.51	<b>§8.51</b>	<p><b>Are temperature probe positions validated?</b></p> <p><b>Expected outcome:</b> Control/recording probe positions determined at validation and verified with an independent monitoring probe at the same position.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.52	<b>§8.52</b>	<p><b>Does the whole load reach temperature before timing starts?</b></p> <p><b>Expected outcome:</b> Sterilising time starts only after the whole load reaches the required temperature; reference-probe load control within a defined range before cycle commencement.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

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8.53	§8.53	<b>Are cooling-phase contamination precautions in place?</b> <b>Expected outcome:</b> Precautions against contamination during cooling; any cooling liquid/gas contacting product or sterilised material is sterilised.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.54	§8.54	<b>Where parametric release is authorised, is it robustly controlled?</b> <b>Expected outcome:</b> Robust lifecycle validation and routine monitoring, periodically reviewed (Annex 17).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.55	§8.55	<b>Is moist heat sterilisation performed by suitable systems?</b> <b>Expected outcome:</b> Steam (direct/indirect) or other systems (e.g. superheated water) suitable for the container type.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.56	§8.56	<b>Are items dry and packaged for air removal/steam penetration?</b> <b>Expected outcome:</b> Items (other than sealed-container products) dry and in a protective barrier allowing air removal and steam penetration; all loads dry on removal, confirmed by visual inspection.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.57	§8.57	<b>Are porous (hard goods) cycles monitored and items inspected?</b> <b>Expected outcome:</b> Time, temperature and pressure monitored/recorded; each item inspected for damage/packaging integrity/moisture; unfit items removed and investigated.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.58	§8.58	<b>Is temperature recorded at the chamber drain for prevacuum/SIP?</b> <b>Expected outcome:</b> For prevacuum autoclaves, temperature recorded at the chamber drain throughout; for SIP, at appropriate condensate drain locations.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.59	§8.59	<b>Are porous and fluid cycle validations complete?</b> <b>Expected outcome:</b> Porous: equilibration/exposure time, pressure-temperature correlation, min/max exposure temperature; fluids: temperature, time and/or FO; CPP with defined limits/tolerances confirmed at validation and routine acceptance.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.60	§8.60	<b>Are steriliser leak tests performed periodically?</b> <b>Expected outcome:</b> Normally weekly when a vacuum phase is used or the system returns to sub-ambient pressure.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.61	§8.61	<b>Is adequate air removal assured?</b> <b>Expected outcome:</b> Air removal test cycle (normally daily) or air detector system for autoclaves/lyophiliser chambers; loads designed for effective air removal and free draining.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.62	§8.62	<b>Is distortion of non-rigid containers prevented?</b> <b>Expected outcome:</b> BFS/FFS containers protected by appropriate cycle design/control (pressure, heating/cooling rates, loading).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.63	§8.63	<b>Are steam-in-place systems designed, validated and monitored?</b> <b>Expected outcome:</b> All parts subjected to required treatment; monitored for temperature/pressure/time at representative slowest-to-heat locations; system remains integral post-SIP (positive pressure or sterilising vent filter).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

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8.64	<b>§8.64</b>	<b>In superheated-water fluid cycles, does water reach all contact points?</b> <b>Expected outcome:</b> Heated water consistently reaches all required contact points; initial temperature mapping; routine nozzle/drain checks.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.65	<b>§8.65</b>	<b>Is superheated-water fluid load validation complete?</b> <b>Expected outcome:</b> Temperature mapping of the entire load, heat penetration and reproducibility studies; routine probes correlated to worst-case positions.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.66	<b>§8.66</b>	<b>Is dry heat sterilisation/depyrogenation controlled?</b> <b>Expected outcome:</b> Time/temperature produce adequate reproducible lethality and/or endotoxin inactivation within established limits, in an oven or continuous tunnel.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.67	<b>§8.67</b>	<b>Are dry heat tunnels configured and validated?</b> <b>Expected outcome:</b> Airflow protects the grade A sterilising zone via pressure differentials; HEPA-filtered air with periodic (at least biannual) filter integrity tests; CPP incl. belt speed/dwell, temperatures, heat penetration/distribution and airflow profiles.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.68	<b>§8.68</b>	<b>Does thermal depyrogenation achieve required endotoxin reduction?</b> <b>Expected outcome:</b> Validated to provide a suitable Fh value and a minimum 3 log <sub>10</sub> endotoxin reduction; no additional sterilisation demonstration then required.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.69	<b>§8.69</b>	<b>Are endotoxin-spiked containers used in depyrogenation validation?</b> <b>Expected outcome:</b> Representative containers spiked and fully reconciled; endotoxin quantification and recovery efficiency demonstrated.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.70	<b>§8.70</b>	<b>Are dry heat ovens controlled and validated?</b> <b>Expected outcome:</b> Positive pressure relative to lower grades; HEPA-filtered air; CPP incl. temperature, exposure time, chamber pressure, air speed, air quality, heat penetration/distribution and load pattern (min/max loads).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.71	<b>§8.71</b>	<b>Is radiation sterilisation used and controlled appropriately?</b> <b>Expected outcome:</b> Used mainly for heat-sensitive materials; UV irradiation is not acceptable; ionising radiation per Annex 12.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.72	<b>§8.72</b>	<b>Does radiation validation consider density variation?</b> <b>Expected outcome:</b> Effects of variation in product/package density considered.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.73	<b>§8.73</b>	<b>Is ethylene oxide used only when unavoidable and degassing validated?</b> <b>Expected outcome:</b> Used only when no other method is practicable; validation shows no damaging product effect and residual EO/reaction products reduced to defined limits.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.74	<b>§8.74</b>	<b>Is direct gas-cell contact ensured for EO?</b> <b>Expected outcome:</b> Precautions avoid organisms enclosed in crystals/dried protein; packaging nature/porosity/quantity controlled.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

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8.75	§8.75	<p><b>Is load conditioning before EO exposure controlled?</b></p> <p><b>Expected outcome:</b> Materials brought to required humidity/temperature equilibrium; conditioning steam of appropriate quality; time minimized before sterilisation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.76	§8.76	<p><b>Is each EO cycle monitored with BIs at worst-case locations?</b></p> <p><b>Expected outcome:</b> Appropriate number of BI test units distributed at validated worst-case locations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.77	§8.77	<p><b>Are EO critical process parameters controlled?</b></p> <p><b>Expected outcome:</b> EO concentration, pressure, amount of gas, relative humidity, temperature and exposure time considered in validation and routine monitoring.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.78	§8.78	<p><b>Is EO aeration validated?</b></p> <p><b>Expected outcome:</b> Load aerated to desorb EO/reaction products to predetermined levels; aeration phase validated within overall EO validation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.79	§8.79	<p><b>Is sterile filtration performed with a validated <math>\leq 0.22 \mu\text{m}</math> filter?</b></p> <p><b>Expected outcome:</b> Solutions filtered through a sterile sterilising grade filter (max 0.22 <math>\mu\text{m}</math> nominal) validated for a sterile filtrate, then aseptically filled; filter compatible and per the marketing authorisation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.80	§8.80	<p><b>Are prefilters/additional sterilising filters used per the CCS?</b></p> <p><b>Expected outcome:</b> Bioburden-reduction prefilters and/or sterilising filters used to control bioburden; an additional sterilising filter near the point of fill considered in the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.81	§8.81	<p><b>Is the filtration system selection justified and documented?</b></p> <p><b>Expected outcome:</b> Components/arrangement based on product CQAs; minimize fibres/particles/impurities; filter compatible with the fluid; adsorption and extractables/leaching evaluated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.82	§8.82	<p><b>Is the filtration system designed to required criteria?</b></p> <p><b>Expected outcome:</b> Operates within validated parameters; maintains filtrate sterility; minimizes aseptic connections; allows cleaning/SIP; permits in-place integrity testing of the final 0.22 <math>\mu\text{m}</math> filter before and after filtration.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.83	§8.83	<p><b>Is sterile filtration validated per Pharmacopeia?</b></p> <p><b>Expected outcome:</b> Validated per relevant Pharmacopeia under worst-case conditions; grouping by strength/variation justified and documented.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.84	§8.84	<p><b>Is bacterial retention testing appropriately performed?</b></p> <p><b>Expected outcome:</b> Wherever possible using the product to be filtered (or a justified surrogate); challenge organism justified.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

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8.85	<b>§8.85</b>	<p><b>Are filtration parameters established during validation?</b></p> <p><b>Expected outcome:</b> Wetting fluid and integrity-test value; pre-filtration hold time, conditioning, max filtration time, max operating pressure, flow rate, max volume, temperature and pressure difference established.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.86	<b>§8.86</b>	<p><b>Are routine filtration controls and records maintained?</b></p> <p><b>Expected outcome:</b> Adherence to validated parameters; critical parameters (e.g. min filtration time, pressure difference) recorded in the batch record; significant deviations documented and investigated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.87	<b>§8.87</b>	<p><b>Is filter integrity verified pre-use (PUPSIT) and post-use?</b></p> <p><b>Expected outcome:</b> Pre-use post-sterilisation integrity test (PUPSIT) and a non-destructive post-use test performed; validated and correlated to microbial retention; a risk-assessed alternative applied only where PUPSIT is not possible.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.88	<b>§8.88</b>	<p><b>Are critical gas/air vent filters integrity tested after use?</b></p> <p><b>Expected outcome:</b> Critical vent filters linked to product sterility verified by post-use testing in situ.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.89	<b>§8.89</b>	<p><b>Are non-critical vent filters integrity-confirmed at intervals?</b></p> <p><b>Expected outcome:</b> Confirmed and recorded at appropriate intervals; extended-use filters tested at installation and before replacement; maximum duration specified and monitored.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.90	<b>§8.90</b>	<p><b>Is unintended wetting of gas filters avoided?</b></p> <p><b>Expected outcome:</b> Unintended moistening/wetting of gas filters or equipment avoided.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.91	<b>§8.91</b>	<p><b>Are multi-filter sterilising systems fully integrity tested?</b></p> <p><b>Expected outcome:</b> A validated multi-filter sterilising system is treated as one unit; all filters pass post-use integrity testing.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.92	<b>§8.92</b>	<p><b>Is redundant filtration integrity handled correctly?</b></p> <p><b>Expected outcome:</b> Post-use integrity test of the primary filter; if integral, the redundant filter test is not required; if the primary fails, the redundant filter is tested with investigation/risk assessment.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.93	<b>§8.93</b>	<p><b>Are bioburden samples taken correctly for filtration?</b></p> <p><b>Expected outcome:</b> From the bulk and immediately before the final sterile filtration (before the first filter in redundant set-ups); sampling designed to avoid contamination.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.94	<b>§8.94</b>	<p><b>Are liquid sterilising filters discarded appropriately?</b></p> <p><b>Expected outcome:</b> Discarded after a single batch; not used for more than one working day unless such use is validated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

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8.95	§8.95	<p><b>Is campaign filter use justified and controlled?</b></p> <p><b>Expected outcome:</b> Risks of filter-use duration assessed/documentated; validation shows no compromise to performance/filtrate; maximum validated duration documented with controls; contaminated/defective filters removed.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.96	§8.96	<p><b>Are FFS environmental conditions compliant?</b></p> <p><b>Expected outcome:</b> Terminally sterilised FFS per §8.3/8.4; aseptic FFS per §8.10.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.97	§8.97	<p><b>Is FFS packaging-film contamination controlled?</b></p> <p><b>Expected outcome:</b> Films meet defined specifications (thickness/strength, microbial/particulate, integrity, artwork); bioburden/endotoxin defined and controlled in the PQS/CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.98	§8.98	<p><b>Is FFS equipment operation understood and validated?</b></p> <p><b>Expected outcome:</b> Set-up, filling, sealing and cutting understood so critical parameters are validated, controlled and monitored.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.99	§8.99	<p><b>Are FFS product-contact gases filtered and verified?</b></p> <p><b>Expected outcome:</b> Filtered as close to point of use as possible; gas quality and filtration effectiveness verified periodically per §6.18/6.19.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.100	§8.100	<p><b>Are FFS qualification controls aligned with the CCS?</b></p> <p><b>Expected outcome:</b> Critical-zone boundaries, EM (machine and background), gowning, integrity testing, campaign duration, film control, CIP/SIP and machine/alarm management addressed.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.101	§8.101	<p><b>Are FFS critical process parameters determined?</b></p> <p><b>Expected outcome:</b> Dimensions/cutting, forming temperatures/times/pressures, sealing temperatures/uniformity/times/pressures, environmental/product temperature, seal strength testing, filling volumes/speeds and printing/embossing controlled.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.102	§8.102	<p><b>Are FFS CPP verified, monitored and recorded in production?</b></p> <p><b>Expected outcome:</b> Appropriate procedures applied during production.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.103	§8.103	<p><b>Are FFS forming/sealing issues detected and rectified?</b></p> <p><b>Expected outcome:</b> Procedures describe detection/rectification; rejected units or sealing issues recorded and investigated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.104	§8.104	<p><b>Is FFS maintenance risk-based with tooling inspection?</b></p> <p><b>Expected outcome:</b> Maintenance/inspection plans for tooling critical to sealing; quality concerns documented and investigated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.105	§8.105	<p><b>Is terminally sterilised BFS installed in the correct environment?</b></p> <p><b>Expected outcome:</b> BFS for terminally sterilised products in at least grade D; point of fill per §8.3/8.4.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

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8.106	<b>§8.106</b>	<b>Are BFS aseptic environmental conditions met?</b> <b>Expected outcome:</b> Shuttle-type: parison-open areas meet grade A at critical zones; rotary-type: filling environment within the parison meets grade A; equipment in at least grade C with grade A/B clothing and risk-based operator monitoring.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.107	<b>§8.107</b>	<b>Is BFS total particle monitoring approached correctly?</b> <b>Expected outcome:</b> In-operation total particle monitoring not expected; design data demonstrate critical zones meet grade A in operation.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.108	<b>§8.108</b>	<b>Is BFS viable monitoring risk-based and continuous where feasible?</b> <b>Expected outcome:</b> Designed per section 9; in-operation viable monitoring for the full duration of critical processing (rotary critical-zone limitation acknowledged).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.109	<b>§8.109</b>	<b>Does BFS EM account for airflow and heat?</b> <b>Expected outcome:</b> Considers moving parts, complex airflow and high heat (e.g. airflow visualisation), air-filter configuration/integrity, cooling integrity and equipment design/qualification.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.110	<b>§8.110</b>	<b>Are BFS container-contact gases filtered and verified?</b> <b>Expected outcome:</b> Air/gases contacting critical container surfaces appropriately filtered; quality/effectiveness verified periodically per §6.18/6.19.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.111	<b>§8.111</b>	<b>Is BFS polymer granulate contamination prevented?</b> <b>Expected outcome:</b> Prevented by appropriate design, control and maintenance of granulate storage, sampling and distribution.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.112	<b>§8.112</b>	<b>Is BFS extrusion sterility assurance validated?</b> <b>Expected outcome:</b> Extrusion capability to provide sterility assurance understood and validated; polymer bioburden/endotoxin defined/controlled in PQS/CCS.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.113	<b>§8.113</b>	<b>Are BFS interventions requiring cessation/re-sterilisation defined?</b> <b>Expected outcome:</b> Clearly defined in the filling procedure and included in the APS as relevant.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.114	<b>§8.114</b>	<b>Are BFS qualification controls aligned with the CCS?</b> <b>Expected outcome:</b> Critical-zone boundaries, EM, gowning, integrity testing, campaign duration, granulate/extrusion temperature control, CIP/SIP and machine/alarm management addressed.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.115	<b>§8.115</b>	<b>Are BFS critical process parameters determined?</b> <b>Expected outcome:</b> CIP/SIP, extrusion parameters/temperatures, mould temperatures/cooling, ancillary component preparation/sterilisation, EM, wall thickness, filling volumes/speeds, printing, 100% integrity testing and flash removal controlled.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.116	<b>§8.116</b>	<b>Are BFS CPP verified, monitored and recorded?</b> <b>Expected outcome:</b> Appropriate procedures applied during production.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.117	<b>§8.117</b>	<b>Are BFS blowing/forming/sealing issues detected and rectified?</b> <b>Expected outcome:</b> Procedures describe detection/rectification; rejected units/sealing issues recorded and investigated.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.118	<b>§8.118</b>	<b>Is BFS component addition controlled?</b> <b>Expected outcome:</b> Components decontaminated and added via a clean/controlled process; aseptic additions under grade A with pre-sterilised components; terminal processes ensure sterility of all pathways; sealing validated.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.119	<b>§8.119</b>	<b>Is BFS maintenance risk-based for sealing/integrity/sterility?</b> <b>Expected outcome:</b> Maintenance/inspection plans for items critical to unit sealing, integrity and sterility.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.120	<b>§8.120</b>	<b>Are BFS moulds treated as critical equipment?</b> <b>Expected outcome:</b> Mould changes/modifications trigger container integrity assessment and, where indicated, validation; issues documented and investigated.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.121	<b>§8.121</b>	<b>Is lyophilization treated as an extension of aseptic processing?</b> <b>Expected outcome:</b> Equipment/processes designed to maintain product sterility from filling of lyophilization product to completion; controls determined by the CCS.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.122	<b>§8.122</b>	<b>Is lyophilizer sterilisation validated and hold time challenged?</b> <b>Expected outcome:</b> Lyophilizer/associated equipment sterilisation validated; hold time between sterilisation and use challenged in APS; regular sterilisation; re-sterilisation after maintenance/cleaning; protection after sterilisation.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.123	<b>§8.123</b>	<b>Are lyophilizers designed to minimize intervention with justified sterilisation frequency?</b> <b>Expected outcome:</b> Loading/unloading minimizes operator intervention; manual/no-barrier lyophilizers sterilised before each load; automated/closed-barrier systems' frequency justified/documentated in the CCS.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.124	<b>§8.124</b>	<b>Is lyophilizer integrity maintained and tested?</b> <b>Expected outcome:</b> Integrity maintained after sterilisation and during lyophilization; filter sterilised before each use with integrity results in batch release; vacuum/leak integrity testing frequency documented and maximum leakage checked each cycle.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.125	<b>§8.125</b>	<b>Are lyophilization trays checked regularly?</b> <b>Expected outcome:</b> Checked to ensure they are not misshapen or damaged.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.126	<b>§8.126</b>	<b>Is lyophilizer loading/unloading designed to protect product?</b> <b>Expected outcome:</b> Documented loading pattern; grade A transfer of partially closed containers with minimized intervention; airflow not adversely affected; unsealed containers protected by barrier; grade A maintained where stoppers not seated; sterile utensils.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.127	<b>§8.127</b>	<b>Do closed systems reduce contamination and manual manipulation?</b> <b>Expected outcome:</b> Designed to reduce the need for manual manipulations and associated risks.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.128	<b>§8.128</b>	<b>Is sterility of closed-system product-contact surfaces ensured?</b> <b>Expected outcome:</b> Product-contact surface sterility ensured; connection to the sterilised pathway after the final filter designed to be made aseptically (e.g. intrinsic devices).	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.129	<b>§8.129</b>	<b>Is integrity of aseptic connection components ensured?</b> <b>Expected outcome:</b> Measures ensure component integrity, captured in the CCS; integrity tests considered where sterility risk exists; supplier failure-mode data collated.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.130	<b>§8.130</b>	<b>Is the closed-system background environment appropriate?</b> <b>Expected outcome:</b> Based on design/process; grade A where integrity may be compromised; lower grade if demonstrated integral each usage; transfers between grades assessed; opening performed in an appropriate grade or with further cleaning/disinfection/sterilisation.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.131	<b>§8.131</b>	<b>Are single-use systems designed to reduce manipulation?</b> <b>Expected outcome:</b> SUS designed to reduce manipulations and complexity of manual interventions.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.132	<b>§8.132</b>	<b>Are SUS-specific risks assessed in the CCS?</b> <b>Expected outcome:</b> Product/contact interactions, fragility, increased manual operations/connections, assembly complexity, filter pre/post-use integrity, holes/leakage, opening risk and particle contamination assessed.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.133	<b>§8.133</b>	<b>Is SUS sterilisation validated?</b> <b>Expected outcome:</b> Validated and shown to have no adverse impact on system performance.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.134	<b>§8.134</b>	<b>Are SUS suppliers assessed and sterility verified?</b> <b>Expected outcome:</b> Supplier assessment (incl. sterilisation) critical; sterility assurance verified at supplier qualification; evidence of sterilisation of each unit checked on receipt.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.135	<b>§8.135</b>	<b>Is SUS adsorption/reactivity evaluated?</b> <b>Expected outcome:</b> Adsorption and reactivity of product with contact surfaces evaluated under process conditions.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.136	<b>§8.136</b>	<b>Are SUS extractable/leachable profiles evaluated?</b> <b>Expected outcome:</b> Profiles evaluated (especially polymer-based), per component; high-risk leachables assessed including safety; simulated conditions reflect actual processing.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.137	<b>§8.137</b>	<b>Do SUS maintain integrity throughout processing?</b> <b>Expected outcome:</b> Integrity maintained under intended conditions; structural integrity under extreme conditions (e.g. freeze/thaw, transport); intrinsic sterile connection integrity verified.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
8.138	<b>S8.138</b>	<b>Are SUS acceptance criteria and receipt checks in place?</b> <b>Expected outcome:</b> Acceptance criteria per risk/criticality; each SUS checked on receipt against approved specification; visual inspection of packaging/label and review of documents (CoC, proof of sterilisation) performed and documented before use.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
8.139	<b>S8.139</b>	<b>Are critical manual SUS handling operations verified in APS?</b> <b>Expected outcome:</b> Assembly and connections subject to appropriate controls and verified during APS.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 9 — Environmental & Process Monitoring

**Status key:** C = Compliant · NC = Non-compliant · OBS = Observation (note in evidence column) · N/A = Not applicable. *Mark the box and record supporting evidence, gaps or CAPA reference alongside.*

#	Ref	Audit question / expected outcome	Status	Observation & evidence
9.1	§9.1	<p><b>Is the EM/process monitoring programme part of the CCS?</b></p> <p><b>Expected outcome:</b> Programme monitors controls; the reliability of viable, non-viable and APS elements is limited individually but together confirms system reliability.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.2	§9.2	<p><b>Does the programme comprise the required elements?</b></p> <p><b>Expected outcome:</b> Total particle EM; viable environmental and personnel monitoring; temperature/RH and specific characteristics; APS (aseptic product).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.3	§9.3	<p><b>Is monitoring information used for release and periodic assessment?</b></p> <p><b>Expected outcome:</b> Used for routine batch certification/release and periodic assessment/investigation, for both terminal and aseptic processes.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.4	§9.4	<p><b>Is a documented, risk-based EM programme established?</b></p> <p><b>Expected outcome:</b> Purpose defined; risk assessments set locations, frequency, methods and incubation; critical monitoring locations determined; reviewed regularly within the CCS/trend context.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.5	§9.5	<p><b>Is routine monitoring performed in operation throughout critical stages?</b></p> <p><b>Expected outcome:</b> Cleanrooms, clean air equipment and personnel monitored in operation throughout all critical stages including set-up.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.6	§9.6	<p><b>Are temperature/RH and other characteristics controlled?</b></p> <p><b>Expected outcome:</b> Controlled within ranges aligned with product/process/personnel requirements and cleanliness standards.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.7	§9.7	<p><b>Does grade A monitoring demonstrate maintained aseptic conditions?</b></p> <p><b>Expected outcome:</b> Monitoring at the highest-risk locations; sampling device selection/orientation/positioning justified to obtain reliable critical-zone data.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.8	§9.8	<p><b>Do sampling methods avoid contamination risk?</b></p> <p><b>Expected outcome:</b> Sampling methods pose no risk of contamination to operations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.9	§9.9	<p><b>Are alert levels and action limits set for viable and total particle?</b></p> <p><b>Expected outcome:</b> Set per Tables 5 &amp; 6 (or tighter per data/process/CCS); alert levels based on qualification results and periodically reviewed on trend data.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.10	§9.10	<p><b>Are alert levels set to detect adverse trends?</b></p> <p><b>Expected outcome:</b> Grade A (total particle), B, C and D alert levels detect and address adverse trends/deterioration.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
9.11	§9.11	<p><b>Is a trending approach defined?</b></p> <p><b>Expected outcome:</b> Trends include increasing/consecutive excursions, common-cause isolated excursions and changes in flora type/numbers (with attention to spore-formers/moulds).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.12	§9.12	<p><b>Is grade C/D in-operation monitoring based on data?</b></p> <p><b>Expected outcome:</b> Based on qualification and routine data enabling trend analysis; action limits may be tighter than Tables 5 &amp; 6 depending on operations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.13	§9.13	<p><b>Are exceedances of action/alert levels actioned?</b></p> <p><b>Expected outcome:</b> Action limit exceedances trigger root-cause investigation, product impact assessment and CAPA; alert level exceedances trigger assessment/follow-up.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.14	§9.14	<p><b>Is a total particle monitoring programme established?</b></p> <p><b>Expected outcome:</b> Established to assess contamination risks and maintain a qualified state for sterile operations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.15	§9.15	<p><b>Are airborne particle limits applied per Table 5?</b></p> <p><b>Expected outcome:</b> Limits for each graded area per Table 5.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.16	§9.16	<p><b>Is grade A particle monitoring for the full duration of critical processing?</b></p> <p><b>Expected outcome:</b> Undertaken for the full duration including equipment assembly.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.17	§9.17	<p><b>Is grade A continuously monitored at an adequate flow rate?</b></p> <p><b>Expected outcome:</b> Continuous monitoring (<math>\geq 0.5</math> and <math>\geq 5 \mu\text{m}</math>) at <math>\geq 28</math> L/min so interventions/transient events/deterioration are captured; each result correlated with alert/action limits; alarms on alert.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.18	§9.18	<p><b>Is grade B monitored with a similar system?</b></p> <p><b>Expected outcome:</b> Similar system with possibly reduced frequency but capturing increased contamination/deterioration; alarms on alert.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.19	§9.19	<p><b>Does the monitoring system account for material hazards?</b></p> <p><b>Expected outcome:</b> Considers risks from live organisms, powders or radiopharmaceuticals (biological/chemical/radiation hazards).</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.20	§9.20	<p><b>Are contaminant-present processes monitored to assure classification?</b></p> <p><b>Expected outcome:</b> Strategy assures classification before and after exposure; increased viable monitoring; monitoring during simulated operations at appropriate intervals per CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.21	§9.21	<p><b>Are automated sample volumes justified?</b></p> <p><b>Expected outcome:</b> Sample size (a function of sampling rate) need not match classification volumes but is justified.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
9.22	\$9.22	<p><b>Is aseptic viable monitoring frequent and justified?</b></p> <p><b>Expected outcome:</b> Combination of settle plates, volumetric air, glove/gown/surface sampling; methods justified in the CCS and shown not to impact grade A/B airflow; surfaces monitored at end of operations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.23	\$9.23	<p><b>Is viable monitoring performed outside normal operations?</b></p> <p><b>Expected outcome:</b> Performed when not manufacturing (post-disinfection, pre-start, batch completion, after shutdown) and in unused associated rooms; additional locations after incidents.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.24	\$9.24	<p><b>Is continuous viable air monitoring performed in grade A?</b></p> <p><b>Expected outcome:</b> For the full duration of critical processing including aseptic set-up; a similar approach considered for grade B; interventions/transient events captured.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.25	\$9.25	<p><b>Is personnel monitoring risk-based and after critical interventions?</b></p> <p><b>Expected outcome:</b> Locations/type/frequency by risk; sampling at intervals and after critical interventions and on each exit from grade B; gloves/gowns replaced after monitoring where required.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.26	\$9.26	<p><b>Is grade A/B personnel microbial monitoring performed?</b></p> <p><b>Expected outcome:</b> Performed, with enhanced emphasis on gowns for manual operations, justified in the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.27	\$9.27	<p><b>Is routine monitoring by production staff overseen by QA?</b></p> <p><b>Expected outcome:</b> Subject to regular quality-unit oversight.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.28	\$9.28	<p><b>Are rapid/alternative monitoring methods considered?</b></p> <p><b>Expected outcome:</b> Considered to expedite detection; adopted only after validation demonstrating equivalence/superiority.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.29	\$9.29	<p><b>Are sampling methods understood with recovery data?</b></p> <p><b>Expected outcome:</b> Methods/equipment understood; procedures for operation/interpretation; recovery-efficiency data available.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.30	\$9.30	<p><b>Are viable action limits applied per Table 6?</b></p> <p><b>Expected outcome:</b> Action limits for viable contamination per Table 6.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.31	\$9.31	<p><b>Are grade A/B organisms identified to species?</b></p> <p><b>Expected outcome:</b> Identified to species with impact evaluation; grade C/D identification considered where limits/levels exceeded or indicative organisms isolated.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.32	\$9.32	<p><b>Is APS used to verify (not primarily validate) the aseptic process?</b></p> <p><b>Expected outcome:</b> Periodic verification using sterile media/surrogate; not the primary means of validation; media/surrogate selected to imitate product characteristics; alternatives for indirect-impact processes.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
9.33	\$9.33	<p><b>Does APS imitate the routine process including all critical steps?</b></p> <p><b>Expected outcome:</b> Assesses all aseptic operations to container sealing; non-filterable additional steps; inert gas substituted with air unless anaerobic intended; sterile-powder surrogates; no separated unit-operation simulations without justification; lyophilization chain represented; viability-affecting steps avoided.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.34	\$9.34	<p><b>Does APS include representative manipulations and worst cases?</b></p> <p><b>Expected outcome:</b> Inherent/corrective interventions performed at routine-like manner/frequency; inclusion/frequency based on assessed risks to product sterility.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.35	\$9.35	<p><b>Is APS prevented from justifying unnecessary risks?</b></p> <p><b>Expected outcome:</b> APS not used to justify practices posing unnecessary contamination risks.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.36	\$9.36	<p><b>Is the APS plan developed with required considerations?</b></p> <p><b>Expected outcome:</b> Worst-case conditions/variables, representative container/closure sizes, max holding times, adequate fill volume, inert-gas substitution, growth-supporting media, reliable detection, sufficient duration, shift factors, interruptions, EM throughout, campaign start/end and any end-of-campaign APS justified in the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.37	\$9.37	<p><b>For sterile active substances, is APS representative?</b></p> <p><b>Expected outcome:</b> Batch size represents routine operation and simulates worst-case interventions covering all product-contact surfaces; simulated materials subjected to microbial evaluation without compromising recovery.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.38	\$9.38	<p><b>Is APS validated and revalidated at required frequency?</b></p> <p><b>Expected outcome:</b> Initial validation with at least three consecutive satisfactory runs covering all shifts; after significant modifications; normally repeated ~twice a year per aseptic process/line/shift; each operator participates in at least one successful APS annually.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.39	\$9.39	<p><b>For manual operations, is APS operator-specific?</b></p> <p><b>Expected outcome:</b> Each operator initially validated with at least 3 consecutive successful APS per container/closure/equipment train and revalidated ~every 6 months; batch size mimics routine.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.40	\$9.40	<p><b>Is the number of APS units sufficient?</b></p> <p><b>Expected outcome:</b> Sufficient to simulate all representative activities; typically 5,000–10,000 units; for batches under 5,000 units, APS at least equals the production batch size; justification captured in the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.41	\$9.41	<p><b>Are APS units handled and incubated correctly?</b></p> <p><b>Expected outcome:</b> Units agitated/swirled/inverted before incubation; all integral units incubated (incl. cosmetic defects/non-destructive checks); discarded units comparable to routine and not exceeding routine clearance.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.42	\$9.42	<p><b>Are discarded product-contact materials simulated?</b></p> <p><b>Expected outcome:</b> Discarded materials (e.g. product flushes) simulated with media and incubated unless demonstrated not to impact sterility.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
9.43	<b>\$9.43</b>	<p><b>Are APS units incubated for visual detection?</b></p> <p><b>Expected outcome:</b> Incubated in clear containers (or identical clear substitutes; or a validated detection method); isolated organisms identified to species where practical.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.44	<b>\$9.44</b>	<p><b>Is APS incubation prompt and justified?</b></p> <p><b>Expected outcome:</b> Incubated without unnecessary delay; incubation conditions/duration scientifically justified and validated for detection sensitivity.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.45	<b>\$9.45</b>	<p><b>Is APS completion inspection and positive control performed?</b></p> <p><b>Expected outcome:</b> Inspected by trained/qualified personnel under suitable conditions; samples positive-controlled with reference organisms and representative local isolates.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.46	<b>\$9.46</b>	<p><b>Is the APS acceptance criterion zero growth with defined failure response?</b></p> <p><b>Expected outcome:</b> Target zero growth; any contaminated unit fails the APS, triggering root-cause investigation, CAPA, ≥3 successful consecutive repeats, review of production since the last successful APS, quarantine of affected product, operator activity limits and resumption only after successful revalidation.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.47	<b>\$9.47</b>	<p><b>Are APS runs fully documented with reconciliation?</b></p> <p><b>Expected outcome:</b> Full documentation with reconciliation of units (filled/incubated/not incubated with justification); all interventions recorded with start/end time and person; monitoring/testing data in the APS batch record.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.48	<b>\$9.48</b>	<p><b>Is an aborted APS handled per procedure?</b></p> <p><b>Expected outcome:</b> Aborted only where written procedures require commercial lots to be equally handled; investigation documented.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
9.49	<b>\$9.49</b>	<p><b>Is the aseptic process re-validated when triggered?</b></p> <p><b>Expected outcome:</b> Repeat of initial validation when idle for an extended period or on changes to process/equipment/procedures/environment or new container/closure combinations.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

## Section 10 — Quality Control (QC)

**Status key:** C = Compliant · NC = Non-compliant · OBS = Observation (note in evidence column) · N/A = Not applicable. *Mark the box and record supporting evidence, gaps or CAPA reference alongside.*

#	Ref	Audit question / expected outcome	Status	Observation & evidence
10.1	<b>§10.1</b>	<p><b>Are QC personnel appropriately trained and experienced?</b></p> <p><b>Expected outcome:</b> Personnel with training/experience in microbiology and sterility assurance support manufacturing design, EM regime and investigations of microbiologically-linked events.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.2	<b>§10.2</b>	<p><b>Do specifications include microbial/particulate/endotoxin limits?</b></p> <p><b>Expected outcome:</b> Raw material, component and product specifications include such limits where indicated by monitoring and/or the CCS.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.3	<b>§10.3</b>	<p><b>Is a bioburden assay performed each batch with defined limits?</b></p> <p><b>Expected outcome:</b> Performed each batch (aseptic and terminal), considered at batch review; defined limits before the final filter/terminal sterilisation with worst-case sampling; overkill-cycle bioburden monitored at scheduled intervals.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.4	<b>§10.4</b>	<p><b>For parametric release, is a pre-sterilisation bioburden programme in place?</b></p> <p><b>Expected outcome:</b> Programme with per-batch bioburden assay; worst-case sampling; organisms identified with impact determined; endotoxin/pyrogen monitored where appropriate.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.5	<b>§10.5</b>	<p><b>Is the sterility test treated as the last of a series of controls?</b></p> <p><b>Expected outcome:</b> Regarded as the last of a series of critical controls; cannot assure sterility of product not meeting design/procedural/validation parameters; validated for the product concerned.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.6	<b>§10.6</b>	<p><b>Is sterility test sampling representative and risk-based?</b></p> <p><b>Expected outcome:</b> Performed aseptically; samples represent the whole batch including highest-risk parts (aseptic batch start/end and post-critical-intervention; worst-case load locations; different lyophilization loads); sub-batch testing where applicable.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.7	<b>§10.7</b>	<p><b>Are short-shelf-life products managed for release?</b></p> <p><b>Expected outcome:</b> Where a sterility result is not available before release, additional process design, monitoring and/or alternative methods are assessed and documented.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.8	<b>§10.8</b>	<p><b>Does sample decontamination not impact test sensitivity?</b></p> <p><b>Expected outcome:</b> Any external decontamination of sterility samples (e.g. VHP, UV) does not negatively impact test sensitivity or sample reliability.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.9	<b>§10.9</b>	<p><b>Is media quality control/growth promotion testing performed?</b></p> <p><b>Expected outcome:</b> Product-test media QC-tested per Pharmacopeia; EM/APS media growth-promotion tested before use with a justified reference set and local isolates; normally performed by the end user; outsourcing justified with transport/shipping considered.</p>	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	

#	Ref	Audit question / expected outcome	Status	Observation & evidence
10.10	<b>§10.10</b>	<b>Is EM/trend data reviewed at batch release with OOS/OOT procedures?</b> <b>Expected outcome:</b> EM and trend data for classified areas reviewed at certification/release; written procedure for out-of-trend/limit data; short-shelf-life products review recent data and consider rapid methods.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	
10.11	<b>§10.11</b>	<b>Are rapid/automated microbial methods validated?</b> <b>Expected outcome:</b> Validated for the products or processes concerned where used for general manufacturing purposes.	<input type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> OBS <input type="checkbox"/> N/A	