

Cleanroom Environmental & Contamination Audit Checklist

Daily Operational Audit & ISO Class 6/7 Environmental Verification Log

Audit Date / Time: Dec 20, 2021 — 08:30 LST	Suite / Area: Cleanroom B-102 (ISO 6/7)	Inspector: Kadeem Manning (Tier II)
Work Order / Batch ID: WO-ENV-2021-9921	Particle Counter S/N: LPC-3500-8812	Verification Form: FM-ENV-2021-17

Item	Verification Parameter & Procedural Check	Target Specification	Status / Reading	Pass / Fail
1	Zone 1 Tacky Mat Boot Wiping	3-step boot-wipe completed before gowning	Mat Clean / Wiped	[X] Pass [] Fail
2	Zone 1 Gowning Sequence	Bouffant, face mask, 1st pair nitrile gloves	Sequence Verified	[X] Pass [] Fail
3	Coverall & Bootie Snaps	Lint-free jumpsuit zipped, boot snaps secured	Garments Fitted	[X] Pass [] Fail
4	Secondary Glove & Eyewear	2nd nitrile gloves cuffed over sleeve; ANSI glasses	Dual Cuffed / Sealed	[X] Pass [] Fail
5	ESD Wrist Strap Connection	Grounding bus connection verified (<1.0 MΩ)	0.85 MΩ Ground	[X] Pass [] Fail
6	Cleanroom Differential Pressure (ΔP)	≥ 15 Pa relative to Antechamber	18.2 Pa Positive	[X] Pass [] Fail
7	Ambient Room Temperature	20.0°C ± 2.0°C	20.1°C Measured	[X] Pass [] Fail
8	Relative Humidity (RH)	40% ± 5% RH	41.5% RH Measured	[X] Pass [] Fail
9	Airborne Particulates (≥0.5 μm)	≤ 35,200 / m ³ (ISO Class 6 Hood Deck)	12,450 / m ³ Count	[X] Pass [] Fail
10	Airborne Particulates (≥5.0 μm)	≤ 293 / m ³ (ISO Class 6 Hood Deck)	42 / m ³ Count	[X] Pass [] Fail
11	Pass-Through Air Lock Wipe-Down	99.9% IPA solvent wipe on incoming tooling	Solvent Wiped	[X] Pass [] Fail
12	Cellulose / Paper Material Prohibition	Zero paper/cardboard; cleanroom synthetic only	Synthetic Only	[X] Pass [] Fail
13	Substrate / Optics Edge Handling	Vacuum wand / Teflon tweezers (≤1.0 mm contact)	Vacuum Wand Used	[X] Pass [] Fail
14	Laminar Flow Hood Surface Hygiene	Hood decks IPA wiped; HEPA air velocity ≥0.35 m/s	0.46 m/s Velocity	[X] Pass [] Fail
15	ALCOA+ Logbook & CMMS Upload	Contemporaneous log entry & 300 DPI PDF upload	Logged WO-9921	[X] Pass [] Fail

Environmental Excursions, Anomaly Notes & Corrective Actions:

All environmental parameters and airborne particle counts fully comply with ISO Class 6 / Class 7 standards. Differential pressure maintained at +18.2 Pa. Laminar airflow velocity across Hood B-102 deck measured at 0.46 m/s. Zero paper or cardboard detected. Work Order WO-ENV-2021-9921 signed off.

Audited By (Lead Tech): Kadeem Manning	Signature: Kadeem Manning	QA Manager Sign-Off: Genevieve Lariviere	Date: Dec 20, 2021
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