**Pieridae — Daily Session Log**

Date: 2025-09-07

**Operator:** Venessa J.

**Environment:** 25 °C | RH \_\_\_\_%

**Meter SN:** \_\_\_\_ | **Buffers lot:** pH 7.00 \_\_\_\_ / pH 4.00 \_\_\_\_

**Executive Snapshot**

• ASRS (AVC) remake completed; pH landed at 5.10 @ 25 °C. Provisional release pending 24–48 h observation.  
• Honey Melt Leave-In — observation addendum only; minor perimeter weeping noted; hold & monitor per plan.  
• SOP hardening captured (pH Test SOP v1.0; ASRS\_AVC\_SOP v1.4.1).

**1) Advanced Scalp Renewal Serum (AVC) — Remake (client-match)**

**Deviation:** Copper peptide added prior to initial pH check.

**pH Path @ 25 °C (direct):** 4.24 → 4.48 (after +0.50 g of 10% NaOH) → 5.10 (final via shuttle + micro-adds).

**Earlier adds:** 10% L-Arginine 1.50 g (no movement due to buffering).

**Controls:** ≤40 °C; low-RPM; no vortex; Base Shuttle method; 60–120 s equilibration per pulse.

**Color/Clarity:** Uniform light blue; specks Y/N \_\_\_\_ (mesh pass Y/N \_\_\_\_).

**Centrifuge micro-probe (15 mL @ 3,000 rpm × 10 min):** Pass/Fail \_\_\_\_.

**Viscosity vs 9/04 baseline:** \_\_\_\_ mPa·s (Δ \_\_\_\_%).

**Disposition:** Release — Provisional (pending 24–48 h checks).

**2) Honey Melt Leave-In Serum — Observation Addendum (no formulation change)**

**Observation:** Minor separation / serum weeping at perimeter; droplets <1 mm; no gross coalescence.

**pH (10% w/w @ 25 °C):** 5.11 (within 4.9–5.3).

**Status:** HOLD — Monitor. Run centrifuge probe and 5 °C / 40 °C 24 h holds.

**SOP Deltas — Process Hardening (no INCI changes)**

• ASRS\_AVC\_SOP v1.4.1: Lock sequence PE 9010 → DMAE bitartrate → pH 5.05–5.20 → Copper peptide; standardize 10% NaOH for bulk + 5% for final approach; Base Shuttle method; anti-vortex control (off-center bar/baffle).

• pH Test SOP v1.0: SKU mapping — ASRS direct @ 25 °C; Honey Melt 10% w/w @ 25 °C; surfactants 10% w/w.

**Inventory Deltas (enter grams used)**

• 10% NaOH solution: \_\_\_\_ g

• 10% L-Arginine solution: 1.50 g

• Aristoflex AVC: \_\_\_\_ g

• Copper peptide: \_\_\_\_ g

• PE 9010: \_\_\_\_ g

• Guarana extract: \_\_\_\_ g

• Aloe vera juice: \_\_\_\_ g

**Artifacts Saved**

• Batch ticket(s), meter screenshots, photos of clarity, centrifuge results → …/Pieridae/Lab/2025-09-07/ ✅

**QA & Acceptance Checklists**

☐ pH triplicate at 25 °C logged (spread ≤ ±0.03)

☐ Centrifuge 3,000 rpm × 10 min: Pass/Fail \_\_

☐ Appearance uniform; specks resolved or mesh pass logged

☐ Viscosity drift ≤ 10% vs baseline

☐ Packaging filled cleanly (airless/treatment pump)

**24–48 h Follow-ups (tomorrow’s shortlist)**

☐ ASRS: pH spot @ 24 h; centrifuge confirm; viscosity drift check (±10%)

☐ Honey Melt: 5 °C & 40 °C short holds; log pass/fail; decide if process-only re-emulsify needed

☐ Finalize ASRS\_AVC\_SOP v1.4.1 & pH Test SOP v1.0 in Pieridae\_Knowledge\_Base; update Spec Sheet links

**Shutdown Summary (EoD Controls)**

☐ pH electrode cleaned and stored in KCl; meter OFF

☐ Hot plates/baths OFF; cool to touch; lids on

☐ Scales cleaned; power OFF

☐ Bases/acids sealed; corrosives cabinet closed

☐ Powders sealed with desiccant; sticky extracts contained

☐ Benches/floors sanitized; tools washed and racked

☐ Session files saved to 2025-09-07 folder; Daily Log exported (PDF)

**Sign-offs**

Prepared by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date/Time: \_\_\_\_\_\_\_\_\_\_\_\_

Reviewed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date/Time: \_\_\_\_\_\_\_\_\_\_\_\_

Reminder: Update the Pieridae\_Knowledge\_Base with this finalized Daily Session Log and SOP deltas.