# Session Log – Pieridae Lab (2025-09-11)

## Projects & Decisions

* **Soft Cream (Absolue Inspired)**
  + Replaced Mandelic Acid with **Fision® GlowPlex** (tested at **3%** and **5%** options); retained **Bakuchiol 0.5%**.
  + Updated spec: **“Soft Cream – GlowPlex + Bakuchiol (100 g Lab Batch)”** with revised process (cool‑down addition for GlowPlex/Bakuchiol; pH 5.2–5.5).
  + Viscosity troubleshooting guidance recorded (fatty alcohol boost and polymer options if needed).
* **Eye Cream (with Eyeseryl®)**
  + Confirmed compatibility and added **Eyeseryl® solution** at **3% and 5%** options in cool‑down.
  + Spec sheet created: **“Pieridae Eye Cream – With Eyeseryl”**.
* **Cleanser**
  + Build document created: **“Foaming Face Wash – Gentle Cream”** featuring **Disodium Cocoyl Glutamate** + mild surfactant system; QC and pH targets defined.
* **Routine/System**
  + Consumer‑facing copy prepared for **“Pieridae Luxury Routine – 3 Step Set”** (Cleanser + Eye Cream + Soft Cream).

## QC & Lab Records

* **Soft Cream – pH Titration Record (100 g batch)**
  + Initial pH: **6.08 @ 25 °C** (neat).
  + Adjustment: **+0.11 g of 10% w/w citric acid** (added incrementally under sweep).
  + Final pH: **5.51 @ 25 °C** (within spec).
  + Action: Mix 10–15 min post‑adjustment; **recheck at T24 h** (expect ±0.1 drift). If needed, micro‑titrate in **0.02–0.03 g** increments of 10% citric to land ~**5.3**.
* **pH Targets**
  + Soft Cream (GlowPlex + Bakuchiol): **5.2–5.5** (setpoint **5.3**).
  + Eye Cream with Eyeseryl®: **5.5–6.0**.
  + Foaming Face Wash (10% dilution): **5.2–5.5**.
* **Sanitation**
  + SOP guidance issued: wash → DI rinse → **70% IPA** spray/wipe (≥10 min contact) → air dry; store covered. Alternatives noted: autoclave/oven for glass; bleach soak with thorough DI rinses.

## Deliverables Generated Today

* **Soft Cream – GlowPlex + Bakuchiol (100 g Lab Batch)** (spec)
* **Pieridae Eye Cream – With Eyeseryl** (spec)
* **Foaming Face Wash – Gentle Cream** (spec)
* **Pieridae Luxury Routine – 3 Step Set** (consumer copy)

## Next Steps / Action Items

1. **T24 h QC on Soft Cream**: recheck pH and viscosity; record in batch sheet.
2. Decide GlowPlex dosage (**3% vs 5%**) for final COG/claims; lock formula.
3. If viscosity remains light, choose one path:
   * **+0.5–1.0%** fatty alcohols (cetyl/behenyl) next run; or
   * **0.15–0.20%** acrylic polymer (electrolyte‑tolerant) with neutralization.
4. Prepare **500 g pilot specs** for Soft Cream (GlowPlex + Bakuchiol) and Eye Cream; optional 500 g for Cleanser.
5. Export today’s outputs as **PDFs** for R&D archive.