# Pieridae Beauty – Argireline Youth Spot Serum (30 g Batch Spec Sheet)

## Product Summary

A lightweight, targeted gel-serum designed for expression lines on the forehead, crow’s feet, and smile lines. Featuring Argireline Youth Peptide (Acetyl Hexapeptide-8) at 10%, this spot serum smooths dynamic wrinkles, hydrates with hyaluronic acid, and strengthens skin with niacinamide and panthenol. Fragrance-free and gentle for sensitive skin.

## Formula – 30 g Batch

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| --- | --- | --- | --- | --- |
| Phase | Ingredient | % w/w | Grams | Function |
| A | Distilled Water | 71.5 | 21.45 g | Solvent |
| A | Glycerin (vegetable) | 4.0 | 1.20 g | Humectant |
| A | Sodium Hyaluronate (LMW) | 0.5 | 0.15 g | Deep hydration |
| B | Argireline (Acetyl Hexapeptide-8, 10% solution) | 10.0 | 3.00 g | Wrinkle-relaxing peptide |
| B | Panthenol (Vitamin B5) | 2.0 | 0.60 g | Soothing, barrier repair |
| B | Niacinamide | 4.0 | 1.20 g | Brightening, strengthens skin |
| C | Aristoflex AVC | 0.8 | 0.24 g | Gelling, silky texture |
| C | Leucidal Liquid or PE 9010 | 1.0 | 0.30 g | Preservative |
| C | Allantoin | 0.2 | 0.06 g | Soothing, anti-irritant |
| D | Fragrance-free / Botanical Hydrosol (optional) | 1.0 | 0.30 g | Sensory & branding touch |

## Manufacturing Instructions

1. Phase A – In sanitized beaker, add distilled water. Sprinkle in sodium hyaluronate and allow full hydration. Stir in glycerin until uniform.  
2. Dissolve allantoin separately: warm 5–10 g of distilled water to 40–50 °C, add allantoin (0.06 g) and stir until fully clear. Add this solution into Phase A.  
3. Phase B – Pre-dissolve niacinamide in a small portion of Phase A water if needed. Add panthenol, Argireline solution, and niacinamide to Phase A (room temp, <40 °C).  
4. Phase C – Sprinkle Aristoflex AVC into the serum while stirring gently. Allow gel network to form (expect a smooth, clear-to-opalescent gel texture). Mix until uniform. Add preservative.  
5. Phase D – Fold in hydrosol or subtle natural fragrance, if desired.  
6. Adjust pH to 5.0–5.2 using 10% NaOH solution in 0.05 g increments, stirring gently and rechecking with a 10% dilution. If overshoot occurs, correct with 10% citric acid in 0.05 g steps.  
7. Allow product to rest 30–60 minutes for viscosity recovery. Confirm final pH 5.0–5.2 before packaging.  
8. Transfer to 15–30 mL airless pump or rollerball applicator for targeted spot application.  
  
Patch Testing: Apply a small amount behind ear or inner arm for 24 hours before first facial use. Discontinue if strong flushing or irritation occurs.