Pieridae Brightening Deodorant Balm – Jar (Jojoba, No EDTA)

Batch Size: 100 g | pH Target: 5.2–5.5  
Texture: Soft, scoopable water-in-oil cream-balm with plush glide and low residue.  
Purpose: Gentle, low-irritant deodorant that helps brighten and even skin tone.

# Formula

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| --- | --- | --- | --- |
| Phase | Ingredient | % w/w | Grams |
| A | Shea Butter (refined) | 18 | 18 |
| A | Jojoba Oil | 12.8 | 12.8 |
| A | Olive Squalane | 6 | 6 |
| A | Zinc Ricinoleate | 4 | 4 |
| A | Beeswax | 7 | 7 |
| A | Olivem 1000 or Emulsifying Wax NF | 8 | 8 |
| A | Vitamin E (MT-50) | 1 | 1 |
| A | Bisabolol | 0.2 | 0.2 |
| B | Distilled Water | 16 | 16 |
| B | Glycerin | 5 | 5 |
| B | N-Acetyl Glucosamine | 3 | 3 |
| B | Niacinamide | 2 | 2 |
| B | Allantoin | 0.5 | 0.5 |
| B | Panthenol (Vitamin B5) | 2 | 2 |
| B | Optional: Manuka Honey | 1 | 1 (reduce water to 15g if used) |
| C | Kaolin Clay | 8 | 8 |
| C | Arrowroot (or Tapioca) Starch | 4 | 4 |
| C | Liquid Germall Plus | 0.5 | 0.5 |
| C | Fragrance (optional) | 1 | 1 |

# Processing Instructions

1. Oil Phase (A): In a double boiler, heat to ~75 °C until uniform. Melt zinc ricinoleate fully into oils.  
2. Water Phase (B): Heat to ~70 °C, dissolve NAG, niacinamide, allantoin, and panthenol completely.  
3. Emulsification: Add B into A slowly, stick-blending to form a uniform W/O emulsion.  
4. Cooldown (<45 °C): Fold in kaolin, arrowroot, preservative, fragrance. Mix until smooth.  
5. Jar & Cure: Fill into jars, tap to release bubbles, cure 24 h before sale.

# Benefits

- Odor Control: Zinc ricinoleate + absorbent powders  
- Brightening: NAG + niacinamide synergy  
- Soothing: Bisabolol, panthenol, allantoin  
- Low Irritant: Baking soda/aluminum-free, pH skin-friendly