Waterless Papain & Rice Enzyme Powder-to-Foam Cleanser Pods — Engineering TDS

0.4g–1.0g Single-Dose Dehumidified Mini Cups, Stick Sachets & Vegan Capsules · Aw < 0.20 · <30% RH Cleanroom Dosing

Verified Corporate & GMP Baseline:
- **Operating Entity:** Guangzhou Yanmei Bio-Technology Co., Ltd. (Tax / Credit ID: `91440106050647021B`)
- **Registered Hub:** Room 801-A, Bldg 8, Plot 5, No. 12 Lvgang 5th St, Huadu Airport Zone, Guangzhou, China
- **Group GMP Credentials:** Parent Co. Fujian Yanse Cosmetics Co., Ltd. holds Bureau Veritas ISO 22716 (`CNSH25778319-IS022716`), US FDA Cosmetic GMP (`CNSH25778319-USFDA`) & License `闽妆20250005`
- **Sample SLA:** Stock Benchmark Kit in **48 Hours** · Custom Lab Counter-Sample in **7–10 Days** (200% PO Rebate)



1. Multi-Layer Barrier & Unit-Dose Process Architecture

LAYER 1	LAYER 2	LAYER 3	LAYER 4	LAYER 5
<30% RH Dehumidified Cleanroom	Free-Flowing Granulated Amino-Acid Base	Stabilized Papain / Bromelain / Rice Core	0.00 g/m²·d Alu-Foil / PP-EVOH Moisture Lock	Instant Wet-Hand Micro-Foam Release

2. Standard Stock-Tooling SKU Matrix, Agile MOQs & Export Carton CBM

Format / Variant	Barrier & Formulation Specification	Agile Pilot MOQ	Lead Time	Export Logistics
0.5g Mini Blister Pod Cup	SCI + Sodium Lauroyl Glutamate + Papain + Rice Bran	**10,000 Pods ($0 Tooling)**	14–18 Days	8 Cartons / 0.28 CBM per 10k
0.8g Foil Stick Sachet	1% Encapsulated Salicylic Acid + Azelaic + Matcha	**10,000 Sticks ($0 Tooling)**	12–16 Days	7 Cartons / 0.24 CBM per 10k
0.4g Water-Soluble Capsule	5% 3-O-Ethyl Ascorbic Acid + Niacinamide Brightening	**15,000 Capsules**	14–18 Days	6 Cartons / 0.22 CBM per 10k
1.0g Scalp Detox Wash Pod	Rosemary + Sea-Salt Micro-Exfoliating Scalp Powder	**10,000 Pods**	14–18 Days	9 Cartons / 0.31 CBM per 10k

3. Quantitative Laboratory Quality Control & Transit Validation Gates

Inspection Gate	Test Method / Equipment	Acceptance Specification	Commercial Benefit
Water Activity Lock	Chilled-Mirror Dew Point Hygrometer	`Aw < 0.20 at Fill & 24 Months`	Zero Enzyme Caking · Zero Preservatives

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Proteolytic Activity Assay	Casein Digestion Enzyme Unit Test	`≥ 95% Retained Activity @ 40°C/75%RH`	Active Exfoliation Until Expiry
Skin-Friendly Foam pH	10% Aqueous Dispersion pH & Ross-Miles	`pH 5.3 – 6.0 · Dense Creamy Lather`	Tear-Free Barrier-Safe Cleansing
Auger Micro-Dose Precision	Servo Auger + In-Line Checkweigher	`± 3.0% Weight Tolerance`	Exact Single-Wash Portion Control

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