

Ube Powder | Purple Yam Powder

Product Specification Sheet — Food Grade · Premium Quality

1. Product Information

Item	Ube Powder / Purple Yam Powder
Botanical Name	<i>Dioscorea alata</i> L.
Family & Genus	Dioscoreaceae — <i>Dioscorea</i>
Used Part	Tuber / Root
Product Grade	Food Grade
Appearance	Fine Purple Powder
Color	Deep Purple to Violet
Odor	Characteristic Ube natural aroma
Taste	Mildly Sweet, Nutty, Earthy undertones

2. Physical & Chemical Specifications

Test Parameter	Specification	Test Method
Appearance & Color	Fine purple powder, no visible impurities	Visual inspection
Odor & Taste	Characteristic Ube flavor, natural aroma	Organoleptic
Particle Size (Mesh)	≥90% through 80 mesh; 100-150 mesh (customizable)	80 mesh sieving / CP2010
Moisture Content	≤ 5.0% ~ 8.0%	105°C/2h Gravimetric (GB 5009.3)

Ash Content	≤ 5.0% ~ 7.0%	525°C/3h Ignition (GB 5009.4)
Bulk Density	0.45 – 0.65 g/mL	Tap density test
pH (1% solution)	5.5 – 7.0	pH meter (GB/T 9724)
Solubility	Partial solubility, forms smooth paste; good dispersibility (hot water)	Visual observation
Anthocyanin Content	≥ 1.5% or ≥ 250 mg/100g	UV-Vis (pH differential method)
Dietary Fiber	≥ 8.0%	AOAC 985.29
Total Heavy Metals	≤ 10 ppm	AAS
Lead (Pb)	≤ 1.0 – 2.0 mg/kg	ICP-MS / AAS
Arsenic (As)	≤ 0.5 – 1.0 mg/kg	ICP-MS / AAS
Cadmium (Cd)	≤ 0.5 – 1.0 mg/kg	ICP-MS / AAS
Mercury (Hg)	≤ 0.1 – 0.3 mg/kg	ICP-MS / AAS
Pesticide Residues	Not Detected (LOD < 0.01 mg/kg)	Eurofins standard
Additives / Preservatives	None detected	HPLC / GC-MS

3. Microbiological Specifications

Test Item	Specification	Method
Total Plate Count	≤ 1,000 – 10,000 CFU/g	Plate Count (GB 4789.2 / AOAC)
Yeast & Mold	≤ 100 CFU/g	GB 4789.15 / AOAC

<i>E. coli</i>	Negative / 25g	GB 4789.38 / AOAC
<i>Salmonella</i>	Negative / 25g	GB 4789.4 / AOAC
<i>Staphylococcus aureus</i>	Negative / 25g	AOAC
Aflatoxin B1	≤ 5 µg/kg	HPLC

4. Nutritional Information (Typical)

Component	Characteristic / Value
Carbohydrates	Rich, slow-release energy (complex carbs)
Protein	Approx. 1.5%
Fat	Very low
Dietary Fiber	≥ 8%
Anthocyanins	High content, potent antioxidant
Diosgenin	Natural phytoestrogen
Allantoin	Beneficial for skin health
Vitamins	Contains Vitamin C, etc.
Minerals	Potassium & trace elements
Glycemic Index (GI)	Low GI (~38)

5. Applications

Industry Sector	<p>Food & Beverage: Ube latte, bubble tea, RTD drinks, ice cream, mousses, cakes, bread, pastries; natural food coloring (replaces artificial dyes); sports nutrition, functional foods.</p> <p>Nutraceuticals / Supplements: Antioxidant capsules, dietary fiber blends, probiotic formulas, gut health formulas, vegan/plant-based nutrition.</p>
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Cosmetics & Personal Care: Antioxidant face masks, creams, natural colorants (blush, contour), gentle exfoliating body scrubs.

6. Packaging & Storage

Packaging Options	1kg/aluminum foil bag; 5kg/bag; 20kg/25kg fiber drums (double food-grade PE liner inside)
Shelf Life	18 – 24 months under proper storage conditions
Storage Conditions	Cool, dry, protected from light and oxygen, away from heat sources.
After Opening	Keep sealed, consume promptly for best quality.

7. Compliance & Certifications

Certification / Compliance	Status
Food Standard	Complies with GB/T 29602-2013 (Solid Beverage) & applicable regulations
GMP Certified	✓
ISO 9001	✓
ISO 22000 / HACCP	✓
HALAL	✓ (optional)
KOSHER	✓ (optional)
Organic (USDA/EU)	✓ (optional)
Non-GMO	✓ (PCR tested)
Allergen Declaration	This product contains no common allergens; facility may process dairy, eggs, peanuts.

8. Documentation Available

Supporting Documents

Certificate of Analysis (COA), Technical Data Sheet (TDS), MSDS/SDS, Allergen Statement, Non-GMO Statement, Certificate of Origin.

9. Supplier Information

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