XI'AN LAND NUTRA CO.,LTD
Room 1202, Building 1, Vanke Huizhi Center, No. 56, Xifeng Road, Yanta District, Xi'an City, Shaanxi Province,China

Technical Data Sheet

1. Product and Company Information

Product Name: Cranberry Extract
Product Code: CRB-ANT-25%
Botanical Name: *Vaccinium macrocarpon L.*
Part Used: Berries
Active Ingredient: Anthocyanins
Specification: ≥25.0%
Manufacturer Details: Xi'an Land Nutra Co., Ltd.
Address: 12th Floor, Vanke Huizhi Center, Yanta District, Xi'an City, Shaanxi, China
Email: sale01@landnutra.com

2. Product Composition

Component	Chemical/Botanical Name	CAS No.	Content
Active Ingredient	Cranberry Extract	84082-34-8	100% extract basis
Anthocyanins	Anthocyanins	--	≥ 25.0%
Moisture	Water	7732-18-5	≤ 5.0%
Total Ash	--	--	≤ 5.0%
Others	--	--	Balance

3. Physical and Chemical Properties

Property	Specification	Test Method
Appearance	Dark red to purple fine powder	Visual
Odor	Characteristic	Organoleptic
Taste	Characteristic, tart	Organoleptic
Bulk Density	0.4–0.6 g/cm³	USP <616>

Property	Specification	Test Method
Particle Size	95% < 180 μm (pass 80 mesh)	Laser diffraction
pH (1% solution)	3.0–5.0	Potentiometric
Solubility	Partially soluble in water; soluble in ethanol-water mixtures	Visual
Loss on Drying	≤ 5.0%	USP <731>
Water Activity (aw)	≤ 0.25	ISO 21807

4. Technical Performance Data

Performance Parameter	Specification	Test Method
Potency Analysis		
Anthocyanins Content	≥ 25.0%	HPLC-UV / UV-Vis
Heavy Metals		
Total Heavy Metals	≤ 10 ppm	ICP-MS
Lead (Pb)	≤ 2.0 ppm	ICP-MS
Arsenic (As)	≤ 1.0 ppm	ICP-MS
Microbiological Control		
Total Plate Count	≤ 1,000 CFU/g	USP <61>
Yeast & Mold	≤ 100 CFU/g	USP <61>
E. coli	Negative	USP <62>
Salmonella	Negative	USP <62>
Stability Data		

Performance Parameter	Specification	Test Method
6-month stability at 25°C/60% RH	Retention ≥ 95%	Accelerated study
12-month stability at 25°C/60% RH	Retention ≥ 90%	Accelerated study
Physical Performance		
Flowability	Good	USP <1174>
Disintegration time (in tablet)	≤ 30 minutes	USP <701>

5. Application Guidelines

Recommended Applications:
Dietary supplements (capsules, tablets, softgels, powders)
Functional foods and beverages (juices, health drinks, nutritional bars)
Cosmetic formulations (anti-aging creams, serums, masks)
Natural colorant for food and cosmetics
Urinary tract health formulations
Product Functions:
Antioxidant properties, free radical scavenging
Urinary tract health support
Immune system support
Cardiovascular health
Anti-inflammatory effects
Usage Recommendations:

Parameter	Recommendation
Typical dosage range	200–800 mg per serving (providing 50–200 mg anthocyanins)
Suggested daily intake	400–1200 mg daily
Compatibility	Compatible with most herbal, vitamin, and mineral ingredients
Processing conditions	Stable below 60°C; protect from light and oxygen during processing
Mixing instructions	Dry blend in powder formulations; for liquids, disperse with moderate agitation

6. Storage and Handling Information

Parameter	Requirement
Storage Temperature	15–25°C (59–77°F); cool, dry place
Relative Humidity	< 60% RH
Light Protection	Store in opaque, airtight containers; avoid direct sunlight
Container	Keep tightly sealed
Shelf Life	24 months from date of manufacture
Special Precautions	Protect from moisture, heat, and light; store in cool, dry environment

7. Packaging Specifications

Package Type	Net Weight	Packaging Material
Small package	1 kg	Double-layer polyethylene bag with aluminum foil lining
Standard package	25 kg	Double-layer food-grade PE bag + aluminum foil + fiber drum
Bulk packaging	Customizable	Upon request

8. Remarks & Compliance

Allergen Statement: This product is free from major allergens (gluten, soy, dairy, egg, shellfish, nuts).
GMO Status: Non-Genetically Modified.
Botanical Source: Berries of Vaccinium macrocarpon L. (Cranberry).
Extraction Method: Water or ethanol-water extraction.
Certifications: Manufactured in a GMP-compliant facility. COA provided with each batch.
Remark: This product is a standardized Cranberry extract with anthocyanin content ≥25%, suitable for dietary supplements, functional foods, cosmetics, and natural colorant applications.