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: Pomegranate Extract
Product Code: POM-EXT-10:1
Botanical Name: Punica granatum L.
Part Used: Fruit peel / Whole fruit
Extract Ratio: 10:1
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	Pomegranate Extract (10:1)	84961-57-9	100% extract basis
Total Polyphenols	Polyphenols	--	≥ 40.0%
Ellagic Acid	Ellagic acid	476-66-4	≥ 10.0%
Moisture	Water	7732-18-5	≤ 5.0%
Total Ash	--	--	≤ 5.0%
Others	--	--	Balance

3. Physical and Chemical Properties

Property	Specification	Test Method
Appearance	Reddish-brown to dark red fine powder	Visual
Odor	Characteristic	Organoleptic

Property	Specification	Test Method
Taste	Astringent, characteristic	Organoleptic
Bulk Density	0.4–0.6 g/cm³ (typical)	USP <616>
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		
Extract Ratio	10:1 (conforms to standard)	TLC
Total Polyphenols	≥ 40.0%	UV-Vis / Folin-Ciocalteu
Ellagic Acid	≥ 10.0% (optional)	HPLC
Heavy Metals		
Total Heavy Metals	≤ 10 ppm	ICP-MS
Lead (Pb)	≤ 2.0 ppm	ICP-MS
Arsenic (As)	≤ 1.0 ppm	ICP-MS
Cadmium (Cd)	≤ 1.0 ppm	ICP-MS

Mercury (Hg)	≤ 0.1 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		
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, powders)
Functional foods and beverages (juices, health drinks, nutritional bars)
Cosmetic formulations (anti-aging creams, serums, masks)
Natural antioxidant formulations
Cardiovascular health products
Product Functions:
Rich in polyphenols and ellagic acid
Strong antioxidant properties, free radical scavenging
Supports cardiovascular health
Anti-inflammatory effects
May support skin health and anti-aging
Usage Recommendations:

Parameter	Recommendation

Parameter	Recommendation
Typical dosage range	200–600 mg per serving
Suggested daily intake	400–1000 mg daily
Compatibility	Compatible with most herbal, vitamin, and mineral ingredients
Processing conditions	Stable below 60°C; protect from light and moisture
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 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	25 kg	Double-layer food-grade PE bag + aluminum foil

Package Type	Net Weight	Packaging Material
package		+ 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: Fruit peel or whole fruit of Punica granatum L. (Pomegranate).
Extraction Method: Water or ethanol-water extraction.
Certifications: Manufactured in a GMP-compliant facility. COA provided with each batch.
Remark: This product is a 10:1 Pomegranate extract, equivalent to 10 kg of raw fruit material extracted to produce 1 kg of extract. Rich in polyphenols and ellagic acid, it is suitable for dietary supplements, functional foods, cosmetics, and natural antioxidant applications.