KINTAI 金泰生物 西安金泰生物技术有限公司
Xi'an Kintai Biotech Inc.

TECHNICAL DATA SHEET (TDS) / SPECIFICATIONS

FOR TOMATO EXTRACT 10% LYCOPENE

Document No.:TDS-KNT-LYC10-2022 *Revision Date:June 6, 2026

1. General Description

Product name	Tomato Extract
Plant Source	Lycopersicon esculentum L.
Plant Part Used	Fruit Pulp
Concentration Ratio	Solid-liquid extraction followed by resin purification and vacuum spray drying.
Extraction Solvent	100% Purified Water / Ethanol
Active Marker	Lycopene
CAS No.	502-65-8 (Lycopene)
ELINCS Number	207-949-1
Irradiation	Not irradiated
Sterilization Method	High Temperature & Pressure
Country of Origin	P.R.China
HS Code	1302.1990.99

2. Organoleptic quality

Appearance	Fine dark red to reddish-brown powder
Odor & Taste	Slight, Specific

3. Physical quality

Item	Specification	Testing method
Assay of Lycopene	≥10%	HPLC
Identification	Positive	TLC
Particle Size	95% through 80 mesh	USP <786>

Factory Address: East 16-3-1, Zhongnan High-tech Airport Industrial Park, Airport New City, Xixian New Area, Shaanxi, China.
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Loss on drying	≤7.0%	USP <731> Volatiles determination
Ash Content	≤5.0%	USP <281> Residue on ignition

4. Chemical quality

Item	**Specification**	**Testing method**
Heavy Metals (Total)	≤10.0 ppm	ICP-MS
Arsenic(As)	≤ 2.0ppm	ICP-MS
Lead(Pb)	≤ 2.0ppm	ICP-MS
Mercury(Hg)	≤ 0.1 ppm	ICP-MS
Cadmium(Cd)	≤ 1.0 ppm	ICP-MS

5. Microbiological quality

Item	**Specification**	**Testing method**
Total Plate Count	≤ 1,000 CFU/g	USP <61>
Total Yeast and molds	≤ 100 CFU/g	USP <61>
E. coli	Negative/10g	USP <62>
Salmonella spp.	Negative/10g	USP <62>
Staphylococcus aureus	Negative/10g	USP <62>

6. Packaging & Storage

Item	**Description**
Primary Packaging	Double-layer polyethylene bags with aluminum foil lining
Secondary Packaging	Sealed fiber drum (Typical 25 kg net weight)
Storage Conditions	Cool, dry place (15–25°C), protected from light and moisture
Shelf Life	24 months when properly stored

7. Quality Control Documentation

Certified under ISO 9001:2015 Quality Management System and ISO 22000:2018 Food

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Safety Management System.

Certificate of Analysis (CoA) provided per batch.

Material Safety Data Sheet (MSDS) available upon request.

8. Compliance & Regulatory Statements

· GMO Status: Non-Genetically Modified Organism (Non-GMO).

· Allergen Control: Free from mandatory allergens as per EU/US regulations.

· BSE/TSE Status: BSE/TSE free; no materials of animal origin used.

· Irradiation Status: Non-irradiated material.

· Suggested Applications: Softgels, capsules, functional dietary formulations, clinical nutrition, and skin-defense cosmetics.

9. Disclaimer

This specification sheet is based on current data and quality controls. Users must conduct independent testing to ensure suitability for specific applications. Specifications may vary slightly between batches; refer to the CoA for exact values.

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