Product Specification Sheet

1. Product Description

Product Name:	Zinc Citrate — Bulk Food Grade
Chemical / Common Name:	Zinc citrate
Synonyms:	Trizinc dicitrate, citric acid zinc salt
Ingredient Statement:	Zinc citrate
Molecular Formula / Weight:	$Zn_3(C_6H_5O_7)_2 \cdot xH_2O$
CAS No. / HS Code:	546-46-3 / 2918.15
Grade:	☐ Conventional ☐ Organic ☒ Food Grade ☐ USP / FCC
Country of Origin:	China
Description:	White powder with characteristic odour and taste. Zinc salt of citric acid, min. 31.3 % zinc.

2. Physical & Chemical Characteristics

Parameter	Specification	Method
Description	Powder	Organoleptic
Colour	White	Organoleptic
Odour & Taste	Characteristic	Organoleptic
Identification	Gives the reactions of citrates and of zinc	USP
Loss on Drying (% w/w)	≤ 10	USP <731>
Particle Size / Mesh	≥ 90 % through #50 mesh	USP <786>
Assay, Zinc (%)	≥ 31.3	USP
Chloride (%)	≤ 0.05	USP <221>
Sulfate (%)	≤ 0.05	USP <221>

3. Contaminants

Parameter	Specification	Method
Total Heavy Metals (ppm)	≤ 10	USP <231>
Lead (Pb) (ppm)	≤ 3	USP <232>
Arsenic (As) (ppm)	≤ 3	USP <232>
Cadmium (Cd) (ppm)	≤ 1	USP <232>
Mercury (Hg) (ppm)	≤ 0.1	USP <232>

4. Microbiological Characteristics

Parameter	Specification	Method
Total Plate Count (CFU/g)	≤ 10,000	USP <2021>
Yeast & Mould (CFU/g)	≤ 1,000	USP <2021>
E. coli	Not detected	USP <2022>
Salmonella	Not detected	USP <2022>
Staphylococcus aureus	Not detected	USP <2022>

5. Allergen Declaration

Priority Allergen (Health Canada)	Present in Product	Same Line / Facility
Peanuts	☐ Yes ☒ No	☐ Yes ☐ No
Tree nuts	☐ Yes ☒ No	☐ Yes ☐ No
Sesame seeds	☐ Yes ☒ No	☐ Yes ☐ No
Milk	☐ Yes ☒ No	☐ Yes ☐ No
Eggs	☐ Yes ☒ No	☐ Yes ☐ No
Fish	☐ Yes ☒ No	☐ Yes ☐ No
Crustaceans & molluscs	☐ Yes ☒ No	☐ Yes ☐ No
Soy	☐ Yes ☒ No	☐ Yes ☐ No
Wheat & triticale	☐ Yes ☒ No	☐ Yes ☐ No
Gluten (barley, oats, rye)	☐ Yes ☒ No	☐ Yes ☐ No
Mustard	☐ Yes ☒ No	☐ Yes ☐ No
Sulphites (≥ 10 ppm)	☐ Yes ☒ No	☐ Yes ☐ No

6. Regulatory Status

GMO Status:	☒ Non-GMO ☐ Contains GMO ☐ Not applicable
Irradiation:	☒ Not irradiated ☐ Irradiated
Certifications:	☐ Kosher ☐ Halal ☐ Organic ☐ Vegan ☐ Other: _____
BSE / TSE Statement:	BSE/TSE free (manufacturer declaration).
Standard of Quality:	Tested per USP methods; complies with the specification above.

7. Packaging, Storage & Shelf Life

Uses:	Zinc source for fortified beverages, nutritional powders, foods and mineral supplements.
Packaging:	Food-grade sealed pouches, repacked from the manufacturer's original packaging.
Storage Conditions:	Store in a well-closed container in a cool, dry place, away from heat, moisture, dust and direct sunlight.
Shelf Life:	24 months from date of manufacture.
Lot Code Format:	YYYYMMDDNN (repack date + sequence), traceable to the manufacturer lot.

8. Quality Assurance Review

Reviewed By (QA): LiquidShop Quality Assurance **Review Date:** 2026-10-08

This document was prepared electronically and reviewed by LiquidShop Quality Assurance. It is valid without a signature.

The information contained in this document is accurate to the best of our knowledge. It is the responsibility of the user to ensure the product is suitable for its intended application and complies with applicable regulations.