Product Specification Sheet

1. Product Description

Product Name:	Calcium Pantothenate (Vitamin B5) — Bulk Food Grade
Chemical / Common Name:	D-Calcium pantothenate
Synonyms:	Vitamin B5, calcium D-pantothenate
Ingredient Statement:	Calcium D-pantothenate
Molecular Formula / Weight:	C18H32CaN2O10 / 476.53 g/mol
CAS No. / HS Code:	137-08-6 / —
Grade:	☐ Conventional ☐ Organic ☒ Food Grade ☐ USP / FCC
Country of Origin:	China
Description:	White powder, soluble in water.

2. Physical & Chemical Characteristics

Parameter	Specification	Method
Characteristics	White powder	Visual
Solubility	Soluble in water	—
Identification	Positive	USP
Identification (chromogenic reactions, calcium salts, IR)	Meets the requirements	—
Assay, D-calcium pantothenate (%)	98 – 102	HPLC
Calcium (%)	8.2 – 8.6	USP/NF titration
Specific Optical Rotation	+25.0° – +28.5°	—
Loss on Drying (%)	≤ 5.0	USP <731>
Methanol Content (%)	≤ 0.3	—
Nitrogen Content (%)	5.7 – 6.0	—
3-Aminopropionic Acid (%)	≤ 0.5	—

3. Contaminants

Parameter	Specification	Method
Heavy Metals (%)	≤ 0.002	—

4. Microbiological Characteristics

Parameter	Specification	Method
Aerobic Plate Count (CFU/g)	≤ 1,000	—
Yeast & Mould (CFU/g)	≤ 100	—
Coliforms (CFU/g)	≤ 100	—
E. coli	Negative	—
Salmonella	Negative	—
Staphylococcus aureus	Negative	—
Pseudomonas aeruginosa	Negative	—

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. Synthetic product, not of animal origin.
Standard of Quality:	Complies with the manufacturer's standard.

7. Packaging, Storage & Shelf Life

Uses:	Vitamin B5 fortification of beverages, foods and supplements.
Packaging:	Food-grade sealed pouches, repacked from the manufacturer's original packaging.
Storage Conditions:	Keep in a sealed container below 25 °C, away from strong light, heat and moisture.
Shelf Life:	—
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.