Product Specification Sheet

1. Product Description

Product Name:	Aspartame — Bulk Food Grade
Chemical / Common Name:	N-L-α-Aspartyl-L-phenylalanine 1-methyl ester
Synonyms:	Aspartyl phenylalanine methyl ester, APM, E951
Ingredient Statement:	Aspartame
Molecular Formula / Weight:	C14H18N2O5 / 294.3 g/mol
CAS No. / HS Code:	22839-47-0 / 2924.29
Grade:	☐ Conventional ☐ Organic ☒ Food Grade ☒ USP / FCC
Country of Origin:	—
Description:	White, odourless crystalline powder; high-intensity sweetener approximately 200 times sweeter than sugar.

2. Physical & Chemical Characteristics

Parameter	Specification	Method
Appearance	White, odourless crystalline powder	Visual
Identification	Conforms to standard	FT-IR (ATR)
Assay (%)	98.0 – 102.0	JSFA / JPE
Loss on Drying (%)	≤ 4.5	JECFA / FCC / USP-NF / EP
5-Benzyl-3,6-dioxo-2-piperazineacetic acid (DKP) (%)	≤ 1.5	FCC / USP-NF
Residue on Ignition (%)	≤ 0.2	USP-NF / EP
Specific Rotation [α]D20	+14.5° to +16.5°	JECFA / FCC / USP-NF / EP
Transmittance	Colourless, transparent; ≥ 0.95	JSFA / JPE
pH	4.5 – 6.0	JECFA / FCC
Other Related Impurities (%)	≤ 2.0	FCC / USP-NF
Other Optical Isomers (%)	≤ 0.02	JECFA

3. Contaminants

Parameter	Specification	Method
Heavy Metals (as Pb) (ppm)	≤ 10	USP-NF / JECFA
Lead (Pb) (ppm)	≤ 1	AAS
Arsenic (as As2O3) (ppm)	≤ 3	JSFA / JPE

4. Microbiological Characteristics

Parameter	Specification	Method
Total Aerobic Bacteria (CFU/g)	≤ 250	JP
Yeasts and Moulds (CFU/g)	≤ 100	JP
Coliforms	Negative / g	Food hygiene test method
E. coli	Negative / g	Food hygiene test method

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:	—
Standard of Quality:	Meets JECFA, FCC, USP/NF and EP specifications (E951).

7. Packaging, Storage & Shelf Life

Uses:	High-intensity sweetener for beverages, tabletop sweeteners, confectionery and supplements.
Packaging:	Food-grade sealed pouches, repacked from the manufacturer's original packaging.
Storage Conditions:	Store sealed in a cool, dry place (5–35 °C). Do not store near products with a strong odour.
Shelf Life:	5 years under normal conditions (5–35 °C, 45–85 % RH) in sealed original packaging.
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.