Aspartame

$C_{14}H_{18}N_2O_5$ · CAS 22839-47-0 · L-aspartyl-L-phenylalanine methyl ester, crystalline powder

SPECIMEN — LIMITS ONLY · BATCH RESULTS ISSUED WITH THE LOT

PRODUCT	IDENTITY / FORM	CAS	SPECIFICATION VERSION
Aspartame	L-aspartyl-L-phenylalanine methyl ester, crystalline powder	22839-47-0	Catalog · confirmed at quotation
BATCH NUMBER	**MANUFACTURE DATE**	**RETEST DATE**	**RELEASE DECISION**
Issued with the lot	Issued with the lot	Issued with the lot	Issued with the lot

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	METHOD
Assay (dried basis)	98.0–102.0% (HPLC)	As stated
L-Phenylalanine	47.0–52.0% (HPLC)	As stated
Related substances	≤2.0% (HPLC)	As stated
Appearance	White crystalline powder	As stated
Moisture	≤4.5%	As stated
pH (1% solution)	4.5–6.0	As stated
Solubility	Sparingly soluble in water; more soluble at lower pH	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.30–0.60 g/mL	As stated
Heavy metals	Pb ≤0.5 · As ≤0.5 · Cd ≤0.5 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker / profile	Aspartame 98.0–102.0%, phenylalanine 47–52%	Identity
Solubility	Sparingly soluble in water; solubility increases at lower pH, and dissolution time matters in a beverage line.	Matrix dependent

LOT FIELDS

A batch-specific certificate replaces the fields above with the measured result, the method actually used, the batch number, the manufacture and retest dates, and the release signature. The catalog limits on this page are the release window, not a result.

STATEMENT

This specimen shows the format and the release specification. It is not a batch COA and must not be presented as one. The COA that ships with a lot is issued from the released batch and is available before dispatch.

> **Pack and storage.** 1 kg foil pouch · 25 kg fiber drum. Store closed in a cool, dry place, away from direct sunlight and moisture. The lot-specific retest date is shown on the batch certificate.

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