Neotame

$C_{20}H_{30}N_2O_5$ · CAS 165450-17-9 · N-[N-(3,3-dimethylbutyl)-L-α-aspartyl]-L-phenylalanine 1-methyl ester

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
N-[N-(3,3-dimethylbutyl)-L-α-aspartyl]-L-phenylalanine 1-methyl ester	$C_{20}H_{30}N_2O_5$	165450-17-9	97.0–102.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC with UV detection	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A high-intensity neotame powder for very low-use-rate sweetening, specified by assay, related substances and the carrier or form needed for accurate dosing.

SWEETNESS

7,000–13,000 × sucrose, indicative

TASTE NOTE

Clean sweetness with a slower onset and a slight linger; at very low use levels the aftertaste is less pronounced than saccharin.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	97.0–102.0% (HPLC)	As stated
Related substances	≤2.0% (HPLC)	As stated
Appearance	White to off-white powder	As stated
Moisture	≤5.0%	As stated
pH (0.5% solution)	5.0–7.0	As stated
Solubility	Sparingly soluble in water	As stated
Particle size	≥95% through 100 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	Neotame 97.0–102.0%	Identity

PARAMETER	SPECIFICATION	METHOD / NOTE
Solubility	Sparingly soluble in water; a pre-diluted premix is usually needed at food use levels.	Matrix dependent
Starting use level	0.0002–0.005% in food, depending on the category	Application dependent
pH behaviour	Most stable at mildly acidic pH; high temperature and neutral pH reduce stability.	Matrix dependent

APPLICATIONS

- Beverages
- Confectionery
- Tabletop
- Dairy
- Chewing gum

AVAILABLE FORMS

- Powder, 100 mesh
- Premix on request
- Granular on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

Shaanxi Rainwood Biotech Co., Ltd. · Rm 218, Tangxing Digital Bldg, #6 Tangxing Rd, Xi'an, Shaanxi, China
info@rainwoodbio.com · sweeteners.rainwoodbio.com