Stachyose 98%

$C_{24}H_{42}O_{21}$ · CAS 470-55-3 · Stachyose tetrahydrate, crystalline powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Stachyose tetrahydrate, crystalline powder	$C_{24}H_{42}O_{21}$	470-55-3	≥98.0% (HPLC-RI)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC-RI	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A 98% stachyose for soluble oligosaccharide applications, with the soybean source, hydrate and sugar profile stated.

SWEETNESS

20–30% of sucrose, indicative

TASTE NOTE

Mild sweetness with a clean finish; at high dose a slight beany note can appear.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Stachyose (dry basis)	≥98.0% (HPLC-RI)	As stated
Appearance	White crystalline powder	As stated
Moisture	≤5.0%	As stated
pH (10% solution)	4.5–7.0	As stated
Solubility	Soluble in water	As stated
Particle size	≥95% through 80 mesh	As stated
Ash	≤0.3%	As stated
Other sugars	≤1.0% (HPLC-RI)	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	Stachyose ≥98%	Identity
Solubility	Soluble in water; low viscosity at use levels.	Matrix dependent
Starting use level	0.5–5% in beverages and supplements, depending on the fibre target	Application dependent
pH behaviour	Stable across normal food pH.	Matrix dependent

APPLICATIONS

- Beverages
- Supplements
- Dairy
- Confectionery
- Bakery

AVAILABLE FORMS

- Powder, 80 mesh
- Granular
- Liquid 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