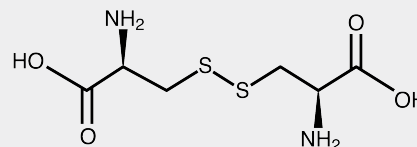


FERMOPURE® Natural L-Cystine INFANT FOOD

Amino Acids

L-Cystine is the amino acid dimer formed when of a pair of L-Cysteine molecules are joined by a disulfide bond through oxidation. L-Cysteine is one of the 20 natural amino acids and, besides methionine, the only one which contains sulfur. WACKER has developed a production method for natural L-Cystine via fermentation from non-animal and non-human raw materials. FERMOPURE® Natural L-Cystine Infant Food is a white or almost white, crystalline powder, practically insoluble in water and alcohol. It dissolves in dilute solutions of alkali hydroxides.

CAS No. 56-89-3 | Empirical formula $C_6H_{12}N_2O_4S_2$ | Molecular weight 240.30



Properties

- No human or animal sources
- Vegan
- Sustainable plant-based raw materials
- Natural
- Utmost purity and safety
- No allergen labeling required

Technical data

Specification

Property	Condition	Value	Method
Aluminum	-	max. 40 ppm	ICP PH. EUR. (2.4.)
Ammonium	-	max. 200 ppm	PH. EUR. (2.2.56)
Appearance	-	positive	Visual Control
Appearance of solution	-	colorless, clear liquid	PH. EUR. (2.2.1)
Arsenic	-	max. 0.2 ppm	PH. EUR. (2.4.2/A)
Assay	-	98.5 - 101.5 %	PH. EUR. (2.2.20)
Bile-tolerant gram-negative bacteria	-	0 in 1g	PH. EUR.
Cadmium	-	max. 0.2 ppm	ICP PH. EUR. (2.4.)
Chloride	-	max. 0.020 %	PH. EUR.
Cronobacter sakazakii	-	0 in 10g	PH. EUR. (2.6.13)
Enterobacteriaceae	-	0 in 10g	PH. EUR.
Heavy metals	-	max. 10 ppm	PH. EUR. (2.4.8/D)
Identification	-	positive	PH. EUR.
Iron	-	max. 10 ppm	PH. EUR. (2.4.9)
Lead	-	max. 0.3 ppm	ICP PH. EUR. (2.4.)
Loss on drying	-	max. 0.2 %	PH. EUR. (2.2.32)
Mercury	-	max. 0.4 ppm	ICP PH. EUR. (2.4.)
Ninhydrin positive substances (each)	-	max. 0.2 %	PH. EUR. (2.2.56)
Residue on ignition	-	max. 0.1 %	PH. EUR. (2.4.14)
Salmonella	-	0 in 25g	PH. EUR.
Specific rotation $[\alpha]_{20/D}$	-	-225 - -215 °	PH. EUR. (2.2.7)
Sulfate	-	max. 0.03 %	PH. EUR. (2.4.13)
Total aerobic microbial count (TMAC)	-	max. 500 CFU/g	PH. EUR.

Property	Condition	Value	Method
pH-Value (0.04g/l H ₂ O)	-	5 - 6.5	specific method

General Characteristics

Property	Condition	Value	Method
Solubility in water	20 °C	0.122 g/l	EU-GL.A.6

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Infant Nutrition

Application details

FERMOPURE® Natural L-Cystine Infant Food is used as a substance for nutritional purposes in infant formulae and follow-on formulae. It is also a nutritional substance in foods intended for particular nutritional uses in order to improve the nutritional value.

Packaging and storage

Packaging

Units of 25 kg

Storage

Storage and transportation: a temperature of 25°C is recommended for optimal product quality, but 40°C up to 180 days does not affect the quality. FERMOPURE® NATURAL L-CYSTINE INFANT FOOD has a shelf life of at least 36 months when stored in unbroken original packaging in dry storage areas.

The best use before date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER website <http://www.wacker.com>.

QR Code FERMOPURE® Natural L-Cystine INFANT FOOD



For technical, quality or product safety questions, please contact:

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