

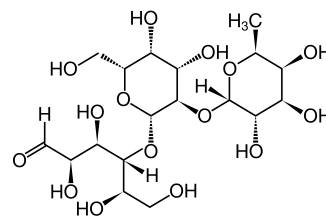
2'-Fucosyllactose Powder

Human Milk Oligosaccharides

2-Fucosyllactose (2-FL) is a human milk oligosaccharide (HMO) and one of the most abundant HMOs naturally present in human breast milk. It is a fucosylated lactose or more precisely a trisaccharide, composed of D-glucose, D-Galactose and L-Fucose units.

Clinical evidence suggests that HMOs like 2-Fucosyllactose may support health benefits such as the selective stimulation of bifidobacterial growth. Furthermore, they may protect against infectious diseases through inhibition of pathogenic microbial binding to the human gut.

WACKER offers a purified 2-Fucosyllactose powder produced by microbial fermentation.



Properties

- Spray-dried powder
- Clean label (no E-number)
- Novel Food Ingredient (EU)
- Kosher & Halal (certificates available upon request)

Technical data

Specification

Property	Condition	Value	Method
2-Fucosyl-D-lactulose	-	max. 1.5 %	HPLC ELSD
2-Fucosyllactose	-	min. 83.0 %	HPLC ELSD
Acetic acid	-	max. 1.0 %	Titration
Aflatoxin M1	-	max. 0.025 µg/kg	ISO 14501
Arsenic (As)	-	max. 0.2 mg/kg	ASU L 12.00-06(a)
Cadmium (Cd)	-	max. 0.1 mg/kg	ASU L 00.00-19/3(a)
Cronobacter spp.	-	negative / 100 g	ISO/ TS 22964
D-Lactose	-	max. 8.0 %	HPLC ELSD
Difucosyl-D-lactose	-	max. 5.0 %	HPLC ELSD
Endotoxins	-	max. 10 EU/mg	PH.EUR 2.6.14
Enterobacteriaceae	-	absence in 10 g	ISO 21528-1
L-Fucose	-	max. 2.0 %	HPLC ELSD
Lead (Pb)	-	max. 0.02 mg/kg	ASU L 00.00-19/3(a)
Mercury (Hg)	-	max. 0.5 mg/kg	ASU L 00.00-19/4(a)
Moulds	-	max. 100 CFU/g	ISO 21527-2
Odor	-	Odorless	Sensorial evaluation
Residual proteins	-	max. 0.01 %	modified Bradford
Salmonella	-	negative / 100 g	ISO 6579-1
Sulphated ash	-	max. 2.0 %	ASU L 06.00-4(a)
Sum of Saccharides (2-Fucosyllactose, D-Lactose, L-Fucose, Difucosyl-D-lactose, 2-Fucosyl-D-lactulose)	-	min. 90.0 %	HPLC ELSD
Taste	-	Slightly sweet	Sensorial evaluation
Total Plate Count (aerobic mesophilic total count) TAMC	-	max. 3000 CFU/g	ISO 4833-1

Property	Condition	Value	Method
Water	-	max. 9.0 %	Karl-Fischer-Titration
Yeast	-	max. 100 CFU/g	ISO 21527-2
pH ⁽¹⁾	-	3.0 - 7.5	Potentiometric

¹20°C, 5 % solution

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

- Dietary Supplements
- Infant Nutrition

Application details

2-Fucosyllactose powder is used as a substance for nutrition purposes in infant formulae and follow-on formulae, in processed cereal-based foods as well as in foods for infants and young children. Furthermore, 2-Fucosyllactose is well suited to be used in dry or liquid dietary supplements or food applications, such as capsules, shots, gummies, nutritional bars or powders.

Packaging and storage

Packaging

Units of 20 kg (pallet scheme 24x20 kg)

Storage

Storage and transportation at room temperature under dry conditions is recommended.

2'-fucosyllactose has a shelf life of at least 24 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.

Caution: Because the product is hygroscopic, it is recommended to process the entire content of the bag immediately after opening.

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 2'-Fucosyllactose Powder



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

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