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Product Master Specification

Item Name	Fucosyllactose Fermented HMO Powder 95% 2-Fucosyllactose (2FL) (Allergen - Lactose)
Product Code	NIGEFIB1000934.1
Product Type	Fibers
Issue Date	18-Aug-2026
Version	V01
QA Status	Final Approved
Intended use	Food use
Test	Specification
Organoleptic	
Appearance	White to off-white powder
Characteristics	
Source	2'-Fucosyllactose
Assay	Assay (water-free) HiMS*: >96.0 w/w % * HiMS = Human-identical Milk Saccharides = Sum of 2'-FL, D-lactose, L-fucose and difucosyl-D-lactose Assay (water-free) 2'-Fucosyllactose: >94.0 w/w %
CAS No.	41263-94-9
Irradiation	Free
GMO	Free
BSE/TSE	Free
Product Specific Test	
Lactose	D-Lactose: ≤3.0 w/w % Difucosyl-D-lactose: ≤1.0 w/w %
Fucose	L-Fucose: ≤ 1.0 w/w % 2'-Fucosyl-D-lactulose: ≤1.0 w/w %
Physical/Chemical	
Water	≤ 5.00 %
Heavy Metals	
Lead (Pb)	≤ 0.05 ppm
Arsenic (As)	≤ 0.20 ppm
Cadmium (Cd)	≤ 0.01 ppm
Mercury (Hg)	≤ 0.01 ppm
Microbiological	
Total Plate Count	< 500 cfu/g

Yeast	< 10 cfu/g
Mould	< 10 cfu/g
Enterobacteriaceae	Absent in 10g
Escherichia coli (E. coli)	Not detected / g
Salmonella	Not detected / 25g
Cronobacter Sakazakii	Absent in 10g
Bacillus cereus	<50 cfu/g
Storage & Handling	
Storage	Store in a clean, cool, dry place at 5 - 25°C. Protect from humidity (RH < 60) and sunlight.
Preparation and/or handling before use or processing	Please ask our QA department for detailed instructions
Transportation	Transportation suitable for dried food powders
Packaging	All packaging meets EU regulations
Shelf Life	5 years from manufacture if stored according to conditions above
Approved by	Quality Department
Signed By	Emma Elrington
Disclaimer	All batches are fully in line with all requirements of the agreed specifications as standard, however not all parameters are tested per batch all of the time. Nutraceuticals Group guarantee all batches.
Template Version	NGEMNSPEC202408a
Nutritional (Typical) / 100g	
General Information	While Nutraceuticals Group strives to provide comprehensive information about all ingredients, the specific nutritional data for this product is currently not available. We recommend conducting further analysis if precise nutritional information is required for your product labelling.