

Technical Datasheet

Analysis Name: Total Oligosaccharides by HPLC

Method Number: LI-00.590

Scope of Application: This method applies to infant formula, BMOS, whey permeates,

GOS

Description: Oligosaccharides present in the samples are extracted in a

water bath. Extracted OS are fluorescently labeled by reaction of the 2-anthranilic acid amide with the OS. The OS is treated

with amyloglucosidase to avoid interferences of

maltooligosaccharides and maltodextrin present in some finished infant formulae on the chromatogram. Labeled extracts are diluted with ACN prior to injection on a UHPLC system equipped with Glycan trapping and analytical columns.

Labeled OS are detected by a fluorimeter on the UHPLC.

Sample Weight 50 g for whey permeate (liquid), 25 g for GOS ingredient, 25 g

Required: for WOS powder, 100 g for infant formula

Analytical Platform: UHPLC

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Special Information: Indication of all sources of fiber upon submission aids in

selecting matrix during sample preparation. Communication of GOS concentrates and BMOS samples is important during

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sample submission.

Analyte Reported	Alias	Unit of	Limit of	Reproducibility
		Measure	Quantification	
GOS (Vivinal Profile)	Galacto-	g/100 g	0.1	10%
	oligosaccharides			
GOS (BMOS Profile)	Galacto-	g/100 g	0.1	10%
	oligosaccharides			
GOS (Clasado Profile)	Galacto-	g/100 g	0.1	10%
	oligosaccharides			

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GOS (BMOS excluding 2FL, 6SL, LNT,	Galacto- oligosaccharides	g/100 g	0.1	10%
LNnT)				
GOS Disaccharides	DP-2	g/100 g	0.1	10%
GOS excluding disaccharides	≥ DP-3	g/100 g	0.1	10%