

Technical Datasheet

Analysis Name:	Total Fructans by Modified AOAC 999.03		
Method Number:	LI-00.582		
Scope of Application:	Milk powder, infant cereals, and infant formula.		
Description:	This method is based on the use of a commercial fructan kit available from Megazyme, Ireland. The sample is extracted with hot water. An aliquot of the extract is treated with specific enzymes, to remove the non-fructan sugars. Following fructan hydrolysis into fructose and glucose, it is measured using a colorimetric reaction with PAHBAH on a spectrophotometer. The total fructan amount of the sample is calculated by comparing the absorbance compared to a fructose standard solution. The result is corrected by using a correction factor "k" to convert fructose to anhydrofructose (and anhydroglucose) as occurs in fructan. An additional correction factor "f" takes into account the partial reduction of the reducing F _m -type fructans. This factor "f" is either assumed to be known for a given type of fructan ingredient, or can be directly determined by analyzing the raw fructan ingredient.		
Sample Weight Required:	30 g		
Method Reference:	AOAC 999.03 – Measurement of Total Fructan in Foods		

Analytical Platform: UV-Spectrophotometer

Special Information: Fructan ingredient information required upon submission

Analyte	Alias	Unit of	Limit of	Reproducibility
Reported		Measure	Quantification	
Fructans		g/100 g	Solids : 0.5	10%
			Liquids : 0.1	