

## **Technical Datasheet**

Analysis Name: Sugar Alcohols by HPAEC-PAD

Method Number: NQA-52.0003\_SA

**Scope of Application:** This method is applicable for the determination of sugar alcohols

(glycerol, xylitol, sorbitol, mannitol, lactitol, and maltitol) in food

products.

**Description:** Extraction of sugar alcohols in water using sonication and injection on

the HPAEC-PAD system. Neutral sugars being weak acids are partially

ionized at high pH and can be separated by anion-exchange

chromatography on a base stable polymeric column. Sugar alcohols are detected by measuring the electrical current generated by their

oxidation at the surface of a gold electrode and quantified by comparison with an external standard. Results are expressed in g per

100 g of product.

Sample Weight 50 g

**Required:** 

Analytical Platform: High Performance Anion Exchange (HPAE) Chromatography

Analyte	Alias	Unit of	Limit of	Reproducibility
Reported		Measure	Quantification	
Glycerol		g/100 g	0.1	20%
Xylitol		g/100 g	0.1	20%
Sorbitol		g/100 g	0.1	20%
Mannitol		g/100 g	0.1	20%
Lactitol		g/100 g	0.1	20%
Maltitol		g/100 g	0.1	20%