

# Technical Datasheet

<b>Analysis Name:</b>	Determination of Reducing and Non-Reducing Sugars by HPAEC
<b>Method Number:</b>	LIBR 054
<b>Scope Application:</b>	Description of an in-house method for the quantitative determination of maltotriose sugars; glucose, sucrose, fructose, lactose and maltose by high performance anion exchange chromatography with pulsed amperometric detection (HPAEC-PAD)..
<b>Description:</b>	Extraction of sugars in hot water and injection in 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 (CarboPac PA20). Sugars are detected by measuring the electrical current generated by their oxidation at the surface of a gold electrode. Post-column addition of NaOH is used to optimize baseline stability, detector sensitivity and linear range.
<b>Sample Weight Required:</b>	50 g
<b>Method Reference:</b>	-
<b>Analytical Platform:</b>	IC
<b>Special Information:</b>	Total sugar content is expressed as sum of individual components determined. Method accredited ABNT ISO 17025: 2017.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
Sucrose	-	g/100g	0.03	< 20 %
Maltose	-	g/100g	0.03	< 20 %
Fructose	-	g/100g	0.03	< 20 %
Glucose	-	g/100g	0.03	< 20 %
Lactose	-	g/100g	0.03	< 20 %
Maltotriose	-	g/100g	0.03	< 20 %