

Technical Datasheet

Analysis Name:	Determination of Cholesterol by GC
Method Number:	LIBR 034
Scope Application:	This instruction describes a method for the quantification of sterols in oils and fats from animal, marine and vegetable origins in raw materials and finished products by capillary gas-liquid chromatography (GLC) with FID detection..
Description:	Direct saponification of the sample using ethanolic potassium hydroxide solution with continuous stirring under hot or cold conditions. Separation of unsaponifiable matter by centrifugation. Derivatisation as trimethylsilyl ether. Separation of sterol derivatives using capillary gas chromatography (GLC) and detection with flame ionisation detector (FID). Identification of the major sterols by comparison of retention time with external standards and reference samples. Quantification of each sterol using epicoprostanol as internal standard.
Sample Weight Required:	120 g
Method Reference:	-
Analytical Platform:	GC
Special Information:	Method in process for accreditation ABNT ISO 17025: 2017.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
Cholesterol	-	mg/100g	0.2	< 8 %