

# Technical Datasheet

<b>Analysis Name:</b>	Fatty Acid Composition by Capillary GC-FID
<b>Method Number:</b>	LIBR 027
<b>Scope Application:</b>	Description of method by Gas Chromatography for determination of fatty acids profile in edible oils, fats and lipids extracted from foods.
<b>Description:</b>	Preparation of FAMES by transesterification with methanolic potassium hydroxide. Separation of FAME, using capillary gas chromatography (GC). Identification of FAMES by comparison with external standard. Determination of FA profile by using tridecanoate internal standard.
<b>Sample Weight Required:</b>	200 g
<b>Method Reference:</b>	-
<b>Analytical Platform:</b>	GC
<b>Special Information:</b>	Calculation to express result over g/100g of product is dependent of total Fat Analysis. Method accredited ABNT ISO 17025: 2017.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
FATTY ACIDS, MONO UNSATURATED	-	g/100gP	0.01	< 10 %
FATTY ACIDS, POLY UNSATURATED	-	g/100gP	0.01	< 10 %
FATTY ACIDS, SATURATED	-	g/100gP	0.01	< 10 %
FATTY ACIDS, TOTAL TRANS	-	g/100gP	0.01	< 10 %
C4:0 BUTYRIC ACID	-	g/100gP	0.01	< 10 %
C6:0 CAPROIC ACID	-	g/100gP	0.01	< 10 %
C8:0 CAPRYLIC ACID	-	g/100gP	0.01	< 10 %
C10:0 CAPRIC ACID	-	g/100gP	0.01	< 10 %
C12:0 LAURIC ACID	-	g/100gP	0.01	< 10 %
C14:0 MYRISTIC ACID	-	g/100gP	0.01	< 10 %
C14:1(cis-9) Myristoleic acid	-	g/100gP	0.01	< 10 %
C15:0 PENTADECANOIC ACID	-	g/100gP	0.01	< 10 %
C15:1 N-5 CIS PENTADECENOIC ACID	-	g/100gP	0.01	< 10 %
C16:0 Palmitic acid	-	g/100gP	0.01	< 10 %
C16:1(cis-9) Palmitoleic acid	-	g/100gP	0.01	< 10 %
C17:0 MARGARIC ACID	-	g/100gP	0.01	< 10 %
C17:1 N-7 CIS HEPTADECENOIC ACID	-	g/100gP	0.01	< 10 %
C18:0 Stearic acid	-	g/100gP	0.01	< 10 %
C18:1 TOTAL TRANS FATTY ACIDS	-	g/100gP	0.01	< 10 %
C18:1 N-9 CIS ÁCIDO OLEICO (+N-7	-	g/100gP	0.01	< 10 %
C18:2(all-cis-9,12) Linoleic acid	-	g/100gP	0.01	< 10 %
C18:2 TOTAL TRANS FATTY ACIDS	-	g/100gP	0.01	< 10 %

C18:3(all-cis-6,9,12) gamma-Linolenic	-	g/100gP	0.01	< 10 %
C18:3(all-cis-9,12,15) alpha-Linolenic	-	g/100gP	0.01	< 10 %
C18:3 TOTAL TRANS FATTY ACIDS	-	g/100gP	0.01	< 10 %
C20:0 ARACHIDIC ACID	-	g/100gP	0.01	< 10 %
C20:1 N-9 CIS EICOSENOIC ACID	-	g/100gP	0.01	< 10 %
C20:2 (all-cis-11,14) Eicosadienoic	-	g/100gP	0.01	< 10 %
C20:3 N-3 CIS EICOSATRIENOIC ACID	-	g/100gP	0.01	< 10 %
C20:3 N-6 CIS EICOSATRIENOIC ACID	-	g/100gP	0.01	< 10 %
C20:4 N-6 CIS ARACHIDONIC ACID AA	-	g/100gP	0.01	< 10 %
C20:5 N-3 CIS EICOSAPENTANOIC	-	g/100gP	0.01	< 10 %
C22:0 BEHENIC ACID	-	g/100gP	0.01	< 10 %
C22:1 n-9 cis Erucic acid	-	g/100gP	0.01	< 10 %
C22:2 (all-cis-13,16) Docosadienoic	-	g/100gP	0.01	< 10 %
C22:6 N-3 CIS DOCOSAHEXAENOIC	-	g/100gP	0.01	< 10 %
C24:0 LIGNOCERIC ACID	-	g/100gP	0.01	< 10 %
C24:1(cis-15) Nervonic acid	-	g/100gP	0.01	< 10 %