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Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Mineral Oil in Oils & Fats by LC/GC FID

Method Number: LI-00.052

Scope of Application: Edible vegetable fats and oils

Description: Determination of mineral oil saturated hydrocarbons (MOSH) and mineral oil aromatic hydrocarbons (MOAH) with online HPLC-GC-FID

Sample Weight Required: 50g

Method Reference: EN 16995:2017;
German Society for Fat Science (DGF) standard method C-VI 22

Analytical Platform: LC/GC-FID

Special Information: Mineral oils are composed of commonly encountered chemicals, so it is important to avoid contamination when sampling. Be careful to submit samples in containers made of materials that do not release hydrocarbons. Glass or aluminum are recommended. Packaging made of paper, polyethylene or polypropylene is unsuitable.

Containers made of polyethylene terephthalate (PET), or foil bags made of RILSAN may be used after checking for their contamination. Attention must also be paid to the material used for closure and sealing of the containers. The use of hand cream should be avoided when handling samples.

Analyte Reported	Unit of Measure	Limit of Quantification	Reproducibility
MOSH/MOSH-analogues \geq C10 to \leq C16	mg/kg	1 mg/kg	CV(iR) \leq 20%
MOSH/MOSH-analogues $>$ C16 to \leq C20			
MOSH/MOSH-analogues $>$ C20 to \leq C25			
MOSH/MOSH-analogues $>$ C25 to \leq C35			
MOSH/MOSH-analogues $>$ C35 to \leq C40			
MOSH/MOSH-analogues $>$ C40 to \leq C50			
MOSH/analogues \geq C10 to \leq C50 (Total Hump)			



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MOSH/analogues \geq C10 to \leq C50 (Total Lower bound)			
MOAH \geq C10 to \leq C16			
MOAH $>$ C16 to \leq C25			
MOAH $>$ C25 to \leq C35			
MOAH $>$ C35 to \leq C50			
MOAH \geq C10 to \leq C50 (Total Hump)			
MOAH \geq C10 to \leq C50 (Total Lower bound)			
purification: aluminum oxide	Yes/No	N/A	N/A
purification: epoxidation	Yes/No	N/A	N/A