NQAC
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: 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 (original container)
Please send no more than 500g of sample per container. The laboratory is unable to guarantee a homogenous test portion if a larger sample size is submitted.

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

Analytical Platform: LC/GC-FID

Special Information: It is important to avoid contamination when sampling for mineral oil analysis. 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.

Palm oils are currently out of scope and will be sent for analysis by an external lab.

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Analyte Reported	Unit of Measure	Limit of Quantification	Reproducibility
MOSH/MOSH-analogues ≥C10 to ≤C16	mg/kg	1 mg/kg	CV(iR) ≤ 20%
MOSH/MOSH-analogues >C16 to ≤C20			
MOSH/MOSH-analogues >C20 to ≤C25			
MOSH/MOSH-analogues >C25 to ≤C35			
MOSH/MOSH-analogues >C35 to ≤C40			
MOSH/MOSH-analogues >C40 to ≤C50			
MOSH/analogs ≥C10 to ≤C50 (Total Hump)			
MOSH/analogs ≥C10 to ≤C50 (Total Lower bound)			
MOAH ≥C10 to ≤C16			
MOAH >C16 to ≤C25			
MOAH >C25 to ≤C35			
MOAH >C35 to ≤C50			
MOAH ≥C10 to ≤C50 (Total Hump)			
MOAH ≥C10 to ≤C50 (Total Lower bound)			
purification: aluminum oxide	Yes/No	N/A	N/A
purification: epoxidation	Yes/No	N/A	N/A