

PT 21: Fats and oils

Details of the program:

- Proficiency testing scheme created in 1993
- **130 registered laboratories from 40 countries**
- **PTS accredited by COFRAC**
- 10 rounds per annual series
- The time for analysis is 4 weeks
- Samples are shipped via express carrier at the end of the previous month.



Schedule:

DATE	CODE	MATRIX	VOLUME
September	4921	Olive pomace oil	250 ml
October	3221	Crude sunflower oil	250 ml
November	5021	Algal oil	250 ml
December	5221	Virgin coconut oil ^{NA}	250 ml
January	3821	Virgin Argan oil	250 ml
February	1921	Poultry fat	250 ml
March	2721	Crude soya oil	250 ml
April	0421	Frying oil	250 ml
May	4721	Walnut oil	250 ml
June	1521	Anhydrous milk fat*	250 ml

* Refrigerated sample

ANALYTES The list of analytes below varies according to the nature of the sample

Fatty acids (relative composition)

Flashpoint ^{NA}

Moisture and volatile matter content

Peroxide value

Para-anisidine index

Sterols (relative composition)

Total Tocopherols (alpha, beta, delta, gamma)

Tocotrienols (α , β , γ and δ)

Triglycerides by (HPLC and GC)

Ultra violet absorbance (K232, K268, K270, Delta K)

Water content criterion Karl-Fischer

Ashes ^{NA}

Other analyses:

Benzo (a) anthracene

Benzo (a) pyrene

Benzo (b) fluoranthene

Antioxydants (BHA, BHT)

Cholesterol content ^{NA}

Chrysene

Delta ECN 42

DEHP^{NA}

Erythrodiol + Uvaol

Ester of Glycidol^{NA}

Fat content

Impurities

Index of saponification

Iodine value

Lauric acidity (FFA) ^{NA}

Lovibond colour

Metals: Iron, Copper, Lead

Melting point

MOSH/MOAH ^{NA}

Oleic acidity (FFA)

Palmitic acidity (FFA)

Phosphorus

Polar compounds

Polymers of triglycerides

Relative density at 20 °C ^{NA}

Stigmastadiene

Rancimat ^{NA}

Refractive index

Solid fat content NMR

Stigmastadiene

Total sterols

Unsaponifiable matter

Vitamin A

Wax content ^{NA}

2-MCPD ester ^{NA}, 3-MCPD ester ^{NA}

Non exhaustive list

NA *: Not accredited parameter

Note: Matrices and analytes may be changed or removed for technical or scientific reasons.

Please refer to current application form available in your member area (www.bipea.org).