TECHNICAL SERVICE CARD

PLAPIQUI

#3006

Wax Quantification in Vegetable Oil

QUANTIFICATION OF WAX ESTERS IN VEGETABLE OILS.

DESCRIPTION

A modified IOC method for wax determination involving a double-adsorbent layer of silica gel and silver nitrate-impregnated silica gel is used to quantify wax esters (esters of fatty acids and long-chain aliphatic alcohols -up to 60 carbon atoms-) in crude and refined oils. Soluble, partially soluble and crystallizable wax esters are quantified without interferences.

AVAILABLE EQUIPAMENT

- Gas chromatograph/Flame Ionization Detector (FID)/Thermal conductivity detector (TCD) (Perkin Elmer, AutoSystem XL).
- HP-5 capillary column.

APPLICATIONS

Vegetable oil industries -specially sunflower oil industry-, control of the efficiency of the wax separation process in order to prevent turbidity in the refined oil.

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