

Technical Datasheet

Analysis Name:	Free Fatty Acid by Colorimetry		
Method Number:	LI-00.516		
Scope of Application:	This method is applicable to edible oils and fats, and the extracted fat.		
Description:	The test portion is diluted in a mixture of ethanol and diethyl ether, then the free fatty acids present are titrated with an ethanolic potassium hydroxide solution in presence of phenolphthalein. The colorimetric indicator allows following the titration according to a pH change (from acid to alkaline).		
Sample Weight Required:	See Special Information (below)		
Method Reference:	ISO 660:2008 - Animal and vegetable fats and oils- Determination of acid value and acidity		
Analytical Platform:	Manual Titration		
Special Information:	If fat extraction is required before testing, 300 g is needed. If the sample can be tested as-is, 25 g.		

Analyte	Alias	Unit of	Limit of	Reproducibility
Reported		Measure	Quantification	
Free fatty acid as	FFA	g/100 g	0.1	The amount of FFA
Oleic				corresponding to
				0.2 mL titrant when
				<5 mL is used; or
				0.50m L titrant
				when ≥ 5 mL is
				used.