

 <p>CSIC CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS INSTITUTO DE LA GRASA UNIDAD DE ANÁLISIS</p>	<p>SAMPLE ANALYSIS FORM PHYSICO-CHEMICAL LABORATORY OILS AND FATS SAMPLES</p>	<p>F- PG03-08-09</p>
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INFORMATION:

TO SEND THE REPORT

NAME or COMPANY		V.A.T. N°:	
ADDRESS COMPLETE			
CONTACT PERSON		TELEPHONE	
e-MAIL:			

FOR INVOICING AND PAYMENT (if it differs from the previous one)

NAME or COMPANY		V.A.T./ N.I.F.:	
ADDRESS complete:			
e-MAIL			

NOTE:

Minimum quantity for analysis, 150mL. Send the filled form together with the sample to the address stated at the bottom of the page

The Laboratory undertakes to:

- Maintain confidentiality and not disclose, disseminate, publish or use the data provided by the client or generated during the analysis.
- Act always in the form of not endangering impartiality, independence and objectivity, neither of the laboratory itself nor of the client.

More information: www.ig.csic.es/analisis-fisico-quimico

Kind of sample	N° OF SAMPLES	ANÁLISIS TYPE		REPORT TYPE:		
OLIVE OIL POMACE OIL Others: <small>(indicate)</small>		Individual	Set	Individual	Multiple	Spanish

DETERMINATIONS (See next page)

CODE	DETERMINATION

OBSERVATIONS: (indicate)

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In _____ at _____ of _____ of _____. Sign

- Consult www.ig.csic.es (services to the exterior, physical-chemical laboratory) if this is the current edition of the application form. You can also check the full list of tests, prices and frequently asked questions.
- If you doubt which method to choose from an assay, put only the digits of the code up to the first point (which indicates the test), and make the appropriate clarifications. Example, if you do not know which method to choose for the Peroxide Index, dial code 43.

Most common tests:

Olive oil and olive pomace Tests referred to in the European Union and IOC regulations

R (CEE) n° 2568/91 (Annex I)

Request code	QUALITY CRITERIA	Coste (IVA no incl.)
2. 17	Acidity _ (Content of free fatty acids) (%)	20 €
43. 18	Peroxide value (PV) (mEq O ₂ /kg)	27 €
55. 19	K ₂₃₂ , K ₂₆₈ /K ₂₇₀ , ΔK	50 €
26. 28	Fatty acids ethylic esters (mg/kg)	80 €
PURITY CRITERIA		
10. 21	Content of fatty acids (including trans) in%. Quantification with internal standard 80€. Indicate it in the analysis petition	60 €
28. 26	Stigmastadiens (mg/kg)	120€
21. 27	Difference: ECN42 (HPLC) and ECN42(Theoretical calculation)	190 €
52. 23	2-glyceril monopalmitate (%)	120 €
27. 20	Composition of sterols	120€
66. 20	Erythrodiol+Uvaol (%)	120 €
9. 28	Waxes (mg/kg)	80 €

COI/ T.15/NC n°3

Request code	QUALITY CRITERIA	Coste (IVA no incl.)
2. 15	Free fatty acids (% m/m in oleic acid)	20 €
43. 16	Peroxide value (PV) (meq oxygen of peroxides per kg of oil)	27 €
55. 4	Absorbance in UV: K ₂₃₂ , K ₂₆₈ /K ₂₇₀ , ΔK	75 €
26. 9	Fatty acids ethylic esters (FAEE)	80 €
32. 10	Phenol content	95 €
PURITY CRITERIA		
10. 14	Composition of fatty acids (including trans) by CG (% m/m of methylic esters). Quantification 80€. Indicate it in the analysis petition.	60 €
27. 11	Composition in Sterols total (mg/kg) (included sterols totals)	120 €
66. 11	Contained in Erythrodiol+Uvaol (%of total sterols)	120 €
9.	Contains in waxes	80 €
21. 5	Determination of the difference between actual and theoretical content of triacylglycerols with ECN42	190 €
28. 1	Contained in Estigmastadieno (mg/kg) (in refined oils 80€)	120€
52. 6	Contained in 2-glyceril monopalmitate	120 €
48.	Matter Unsaponifiable (g/kg)	80 €

Fats in general

Request code	Test	Test standard	OBSERVATIONS	Cost (IVA not incl.)
2.44	Free fatty acids by titrimetric (%) (Acidity)	ISO 660:2009		20 €
4. 24	Aliphatic Alcohols by G.C. (mg/Kg)	R (CEE) N° 2568/91, annex XIX, in force		120 €
4. 8	Aliphatic Alcohols by G.C. (mg/Kg)	COI/ T.20/ Doc. n° 26, in force		120 €
9. 28	Waxes by C.G. (mg/Kg)	R (CEE) N° 2568/91, annex XX, in force		80 €
9. 9	Waxes by C.G. (mg/Kg)	COI/ T.20/ Doc. n° 28, in force		80 €
10. 31	Fatty acids composition by G.C. (g/100g fat)	ISO 12966-2: 2011 (4.2) mét. fast and ISO 12966-4:2015		60 €
10. 33	Fatty acids composition by G.C. (g/100g fat)	ISO 12966-2: 2011 (4.3) mét. general and ISO 12966-4:2015		60 €
11. 13	Glyceridic composition by G.C. (%)	COI/ T.20/ Doc. n° 32, in force	(Biodiesel 80 €)	70 €
32. 10	Phenols by HPLC (mg/Kg)	COI/ T.20/ Doc. n° 29, in force		95 €
33. 72	Total Phenols (ppm cafeic acid)	Colorimetric method Folin-Ciocalteu.	Ref. Aceites y grasas vol. 24 fasc.6 (1973)	70 €
14. 48	Polar compounds in frying fats (% m/m)	ISO 8420:2002		70 €
21. 27	Difference between actual and theoretical content of triacylglycerols with ECN42	R (CEE) N° 2568/91 annexed XVIII, in force		190 €
21. 5	Difference between actual and theoretical content of triacylglycerols with ECN42	COI/ T.20/ Doc. n° 20, in force		190 €
22. 74	Diglycerides by G.C. (%)	J. of Chrom. A, 721 (1996), 305-314		100 €
24. 60	Squalene by G.C. (ppm)	Internal procedure (methylation)		85 €
26. 28	Fatty acids alkyl esters (mg/Kg)	R (CEE) N° 2568/91, annexed XX, in force		80 €
26. 9	Fatty acids alkyl esters (mg/Kg)	COI/ T.20/ Doc. n° 28, in force		80 €
27. 29	Sterols by G.C. (%)	ISO 12228-2:2014		120 €
28. 2	Stigma-3,5-diens (mg/Kg)	COI/ T.20/ Doc. n° 16, in force	(refined oils 80€)	120 €
36. 48	Total fat extracted with hexane	ISO 659:2009	(%fat on product or on its dry extract)	70 €
31. 53	Fat Extraction with hexane in cold	Internal procedure		60 €
38. 59	Saturated hydrocarbons aliphatic, exogenous paraffins mineral oil	Internal procedure, based on ISO 17780:2015 (SiO ₂ -Ag)		120 €
39.	Moisture and volatile matters by gravimetry (%)	Internal procedure (PNT-02)		30 €
40. 45	Insoluble impurities by gravimetry (%)	ISO 663:2007		37 €
3. 44	Acid value (mgKOH/Kg)	ISO 660:2009		20 €
42. 46	p-anisidine value	ISO 6885:2016		60 €
43. 42	Peroxide value (PV) (meq O/ Kg de grasa)	ISO 3960:2007		27 €
44. 41	Saponification value	ISO 3657: 2013		50 €
53. 66	Solids calculated from the DSC curve (%)	AOCS Cd 10-57		50 €
46. 50	Iodine value	UNE 55.013		50 €
47. 82	Global quality value	Gutiérrez y González Quijano (1989)		226 €
48. 39	Unsaponifiable with diethyl ether (%)	ISO 3596:2000		80 €
49. 38	Unsaponifiable with petroleum ether (%)	ISO 18609:2000		80 €
50. 38	Unsaponifiable with hexane (%)	ISO 18609:2000		80 €
52. 23	2-glyceril monopalmitate (%)	R (CEE) N° 2568/91, annex VII, in force		120 €
52. 6	2-glyceril monopalmitate (%)	COI/ T.20/ Doc. n° 23 in force		120 €
55. 40	Spectrophotometric examination in the U.V. .	ISO 3656:2011		50€
25. 47	RANCIMAT	ISO 6886:2016	Stability in hours	75 €
60. 49	Tocopherols by HPLC (mg/Kg)	ISO 9936:2016		95 €
64. 35	Polimerized Triglycerides by HPSEC (%)	ISO 16931:2009		80 €

Samples sending address