

Reference Material and Inter-laboratory Quality Control Materials Product Summary

February 2025

Version: 1

Assigned Values: Values provided have been generated from Inter-Laboratory Proficiency Programmes (ILPP) or from data provided by laboratories for the purpose of characterisation. The reference material values provided in this summary are the mean of the results after the exclusion of statistical outliers. The Assigned Range provided for the Inter-laboratory QC Materials is the range of test values available for purchase. Each Reference and QC Material comes with a Data Summary Sheet.

Missing Values and Available Tests: For Reference Materials where property values do not meet the statistical criteria, the summary values have not been provided. For this reason, not all tests will be available for every Reference Material of the same matrix. However, if there are 3 or more data points available, an Assigned Value will be provided with the corresponding QC material.

Sample Sizes: Available sample sizes are shown for reference materials.

Ordering Reference Materials and/or Quality Control Materials, acknowledges you have read and understood our terms and conditions. These can be found at: <https://www.global-proficiency.com/terms-conditions>

Note: When ordering QC materials, please quote both the Product ID AND the process run (PR) number.

QC Material: Vegetable Oils - Canola Oil

Matrix: Vegetable Oils	Product ID	16136-QC
	Process Run	PR11865
	Expiry Date	22 Mar 25
	Sample Size	200mL
	Acid Value (mg KOH/g)	0.0798
	Colour - Red Lovibond RYBN	1.12
	Colour - Yellow Lovibond RYBN	13.8
	Free Fatty Acid as oleic (%)	0.0379
	GC FAME Profile - % C 18:1	63.5
	GC FAME Profile - % C 18:2	19.4
	GC FAME Profile - % C 18:3	7.52
	GC Profile - % cis Monos	64.8

	GC Profile - % cis Polys	26.8
	GC Profile - % Saturates	7.26
	GC Profile - % Trans	0.957
	Iodine Value	111
	Moisture (%)	0.0720

QC Material: Vegetable Oils - Olive Oil

Matrix: Vegetable Oils	Product ID	16135-QC
	Process Run	PR11865
	Expiry Date	22 Mar 25
	Sample Size	200mL
	Acid Value (mg KOH/g)	0.302
	Colour - Red Lovibond RYBN	5.64
	Colour - Yellow Lovibond RYBN	54.0
	Free Fatty Acid as oleic (%)	0.149
	GC FAME Profile - % C 18:1	70.7
	GC FAME Profile - % C 18:2	11.2
	GC FAME Profile - % C 18:3	0.775
	GC Profile - % cis Monos	71.7
	GC Profile - % cis Polys	11.9
	GC Profile - % Saturates	15.7
	GC Profile - % Trans	0.463
	Iodine Value	83.5
	Moisture (%)	0.0760

QC Material: Vegetable Oils - Soyabean Oil

Matrix: Vegetable Oils	Product ID	16036-QC
	Process Run	PR11865
	Expiry Date	22 Mar 25
	Sample Size	200mL
	Acid Value (mg KOH/g)	0.543
	Colour - Red Lovibond RYBN	1.27
	Colour - Yellow Lovibond RYBN	18.8
	Free Fatty Acid as oleic (%)	0.273
	GC FAME Profile - % C 18:1	24.6
	GC FAME Profile - % C 18:2	51.9
	GC FAME Profile - % C 18:3	6.15
	GC Profile - % cis Monos	24.9
	GC Profile - % cis Polys	57.8
	GC Profile - % Saturates	16.1
	GC Profile - % Trans	1.18
	Iodine Value	129
	Moisture (%)	0.0840
	Peroxide Value (meq)	2.68