

Reference Material and Inter-laboratory Quality Control Materials Product Summary

December 2017

Version: 2

Assigned Values: Values provided have been generated from an Inter-Laboratory Proficiency Programme (ILPP). 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.

Note: When ordering QC materials, please quote both the Product ID AND the process run

QC Material: Fat - Confectionery Fat

Matrix: Fat	Product ID	8584-QC
	Process Run	PR5980
	Expiry Date	19 Apr 18
	Sample Size(s)	300g
	Acid Value (mg KOH/g)	0.220
	GC FAME Profile - % C 18:1	0.290
	GC FAME Profile - % C 18:2	0.0300
	Drop Point (°C)	33.3
	Free Fatty Acid as oleic (%)	0.110
	Iodine Value	0.610
	Melting Point (°C)	36.0
	Moisture (%)	0.0500
	GC Profile - % cis Monos	0.230
	GC Profile - % cis Polys	0.0300
	Peroxide Value (meq)	0.0200
	Colour - Red by Lovibond	0.300
	GC Profile - % Saturates	99.7
	Solid Fat Content at 10° C (%)	90.2

	Solid Fat Content at 30° C (%)	3.61
	GC Profile - % Trans	0.0900
	Colour - Yellow by Lovibond	2.00

QC Material: Fat - Vegetable Shortening

Matrix: Fat	Product ID	8585-QC
	Process Run	PR5980
	Expiry Date	19 Apr 18
	Sample Size(s)	300g
	Acid Value (mg KOH/g)	0.165
	GC FAME Profile - % C 18:1	31.9
	GC FAME Profile - % C 18:2	7.14
	GC FAME Profile - % C 18:3	0.125
	Drop Point (°C)	48.8
	Free Fatty Acid as oleic (%)	0.0800
	Iodine Value	41.2
	Melting Point (°C)	50.0
	Moisture (%)	0.0300
	GC Profile - % cis Monos	32.0
	GC Profile - % cis Polys	7.24
	Peroxide Value (meq)	1.78
	Colour - Red by Lovibond	2.00
	GC Profile - % Saturates	60.5
	Solid Fat Content at 10° C (%)	73.7
	Solid Fat Content at 30° C (%)	26.6
	GC Profile - % Trans	0.290
	Colour - Yellow by Lovibond	20.0

QC Material: Vegetable Oils - Canola Oil

Matrix: Vegetable Oils	Product ID	8586-QC
	Process Run	PR6095
	Expiry Date	16 Mar 18
	Sample Size(s)	200mL
	Acid Value (mg KOH/g)	0.0400
	GC FAME Profile - % C 18:1	61.8
	GC FAME Profile - % C 18:2	19.7
	GC FAME Profile - % C 18:3	9.01
	Free Fatty Acid as oleic (%)	0.0200
	Iodine Value	114
	Moisture (%)	0.0550
	GC Profile - % cis Monos	63.6
	GC Profile - % cis Polys	27.6
	Peroxide Value (meq)	1.00
	GC Profile - % Saturates	7.09
	GC Profile - % Trans	1.62

QC Material: Vegetable Oils - Olive Oil

Matrix: Vegetable Oils	Product ID	9002-QC
	Process Run	PR6095
	Expiry Date	16 Mar 18
	Sample Size(s)	200mL
	Acid Value (mg KOH/g)	0.225
	GC FAME Profile - % C 18:1	76.5
	GC FAME Profile - % C 18:2	6.37
	GC FAME Profile - % C 18:3	0.625
	Free Fatty Acid as oleic (%)	0.110
	Iodine Value	81.4
	Moisture (%)	0.0600
	GC Profile - % cis Monos	77.9
	GC Profile - % cis Polys	7.00
	Peroxide Value (meq)	3.92
	GC Profile - % Saturates	14.8
	GC Profile - % Trans	0.125

QC Material: Vegetable Oils - Palm Oil

Matrix: Vegetable Oils	Product ID	8741-QC
	Process Run	PR6095
	Expiry Date	16 Mar 18
	Sample Size(s)	200mL
	Acid Value (mg KOH/g)	0.220
	GC FAME Profile - % C 18:1	46.2
	GC FAME Profile - % C 18:2	11.6
	GC FAME Profile - % C 18:3	0.225
	Free Fatty Acid as oleic (%)	0.110
	Iodine Value	62.0
	Moisture (%)	0.0500
	GC Profile - % cis Monos	46.7
	GC Profile - % cis Polys	11.6
	Peroxide Value (meq)	2.55
	GC Profile - % Saturates	41.0
	GC Profile - % Trans	0.705

QC Material: Vegetable Oils - Rice Bran Oil

Matrix: Vegetable Oils	Product ID	8458-QC
	Process Run	PR5849
	Expiry Date	17 Dec 17
	Sample Size(s)	250mL
	Acid Value (mg KOH/g)	0.300
	GC FAME Profile - % C 18:1	41.8
	GC FAME Profile - % C 18:2	33.9
	GC FAME Profile - % C 18:3	1.08
	Free Fatty Acid as oleic (%)	0.150
	Iodine Value	98.5
	Moisture (%)	0.0900
	GC Profile - % cis Monos	42.4
	GC Profile - % cis Polys	33.6
	Peroxide Value (meq)	4.18
	Colour - Red by Lovibond	4.80
	GC Profile - % Saturates	21.9
	GC Profile - % Trans	1.79
	Colour - Yellow by Lovibond	37.0

QC Material: Vegetable Oils - Soyabean Oil

Matrix: Vegetable Oils	Product ID	6744-QC
	Process Run	PR5849
	Expiry Date	17 Dec 17
	Sample Size(s)	250mL
	Acid Value (mg KOH/g)	0.340
	GC FAME Profile - % C 18:1	20.6
	GC FAME Profile - % C 18:2	54.3
	GC FAME Profile - % C 18:3	8.27
	Free Fatty Acid as oleic (%)	0.175
	Iodine Value	134
	Moisture (%)	0.0700
	GC Profile - % cis Monos	20.8
	GC Profile - % cis Polys	62.0
	Peroxide Value (meq)	2.65
	Colour - Red by Lovibond	1.10
	GC Profile - % Saturates	16.2
	GC Profile - % Trans	0.970
	Colour - Yellow by Lovibond	10.0