

## Reference Material and Inter-laboratory Quality Control Materials Product Summary

September 2018

Version: 1

**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	10027-QC
	Process Run	PR6639
	Expiry Date	11 Oct 18
	Sample Size	300g
	Acid Value (mg KOH/g)	0.0600
	Colour - Red by Lovibond RYBN	0.600
	Colour - Yellow Lovibond RYBN	2.70
	Free Fatty Acid as oleic (%)	0.0300
	GC FAME Profile - % C 18:1	0.170
	GC Profile - % cis Monos	0.0800
	GC Profile - % Saturates	99.8
	GC Profile - % Trans	0.0950
	Iodine Value	0.615
	Melting Point (°C)	36.0
	Moisture (%)	0.0600
	Peroxide Value (meq)	0.0285
	Solid Fat Content at 10° C (%)	89.8
	Solid Fat Content at 30° C (%)	3.93

**QC Material: Fat - Margarine**

Matrix: Fat	Product ID	10029-QC
	Process Run	PR6639
	Expiry Date	11 Oct 18
	Sample Size	300g
	Acid Value (mg KOH/g)	0.220
	Colour - Red by Lovibond RYBN	5.00
	Colour - Yellow Lovibond RYBN	52.5
	Free Fatty Acid as oleic (%)	0.110
	GC FAME Profile - % C 18:1	38.8
	GC FAME Profile - % C 18:2	1.84
	GC FAME Profile - % C 18:3	0.400
	GC Profile - % cis Monos	38.0
	GC Profile - % cis Polys	2.20
	GC Profile - % Saturates	53.2
	GC Profile - % Trans	6.92
	Iodine Value	45.0
	Moisture (%)	15.8
	Peroxide Value (meq)	3.10
	Solid Fat Content at 10° C (%)	58.9

**QC Material: Fat - Vegetable Shortening**

Matrix: Fat	Product ID	10028-QC
	Process Run	PR6639
	Expiry Date	11 Oct 18
	Sample Size	300g
	Acid Value (mg KOH/g)	0.170
	Colour - Red by Lovibond RYBN	2.40
	Colour - Yellow Lovibond RYBN	32.4
	Free Fatty Acid as oleic (%)	0.0800
	GC FAME Profile - % C 18:1	34.2
	GC FAME Profile - % C 18:2	8.33
	GC FAME Profile - % C 18:3	0.144
	GC Profile - % cis Monos	34.5
	GC Profile - % cis Polys	8.50
	GC Profile - % Saturates	56.9
	GC Profile - % Trans	0.200
	Iodine Value	45.0
	Melting Point (°C)	51.1
	Moisture (%)	0.0600
	Peroxide Value (meq)	1.25
	Solid Fat Content at 10° C (%)	65.4

**QC Material: Vegetable Oils - Olive Oil**

Matrix: Vegetable Oils	Product ID	9002-QC
	Process Run	PR6944
	Expiry Date	16 Dec 18
	Sample Size	200mL
	Acid Value (mg KOH/g)	0.240
	Colour - Red Lovibond RYBN	2.50
	Free Fatty Acid as oleic (%)	0.120
	GC FAME Profile - % C 18:1	77.0
	GC FAME Profile - % C 18:2	6.23
	GC FAME Profile - % C 18:3	0.640
	GC Profile - % cis Monos	78.0
	GC Profile - % cis Polys	6.84
	GC Profile - % Saturates	14.9
	Iodine Value	80.0
	Peroxide Value (meq)	4.48

**QC Material: Vegetable Oils - Palm Oil**

Matrix: Vegetable Oils	Product ID	8741-QC
	Process Run	PR6944
	Expiry Date	16 Dec 18
	Sample Size	200mL
	Acid Value (mg KOH/g)	0.270
	Colour - Red Lovibond RYBN	3.70
	Free Fatty Acid as oleic (%)	0.125
	GC FAME Profile - % C 18:1	46.3
	GC FAME Profile - % C 18:2	11.5
	GC FAME Profile - % C 18:3	0.235
	GC Profile - % cis Monos	46.6
	GC Profile - % cis Polys	11.4
	GC Profile - % Saturates	41.0
	GC Profile - % Trans	0.640
	Iodine Value	61.8
	Moisture (%)	0.0600

**QC Material: Vegetable Oils - Soyabean Oil**

<b>Matrix: Vegetable Oils</b>	<b>Product ID</b>	10031-QC
	<b>Process Run</b>	PR6944
	<b>Expiry Date</b>	16 Dec 18
	<b>Sample Size</b>	200mL
	<b>Acid Value (mg KOH/g)</b>	0.0800
	<b>GC FAME Profile - % C 18:1</b>	22.3
	<b>GC FAME Profile - % C 18:2</b>	53.8
	<b>GC FAME Profile - % C 18:3</b>	7.22
	<b>GC Profile - % cis Monos</b>	22.5
	<b>GC Profile - % cis Polys</b>	60.6
	<b>GC Profile - % Saturates</b>	16.0
	<b>GC Profile - % Trans</b>	0.780
	<b>Iodine Value</b>	132
	<b>Moisture (%)</b>	0.0700
	<b>Peroxide Value (meq)</b>	9.55