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| FAPAS QC MATERIAL DATA SHEET | T14218QC |
| Matrix | Vegetable Oil |
| Weight / Volume of Contents | 30 ml |

| Analyte | Assigned Value, X_a | Range for $ z \leq 2$ | Units | No. of data points producing X_a |
|---|-----------------------|------------------------|------------------|------------------------------------|
| Saturates | 7.40 | 6.66 - 8.14 | g/100g of sample | 91 |
| Mono-unsaturates | 64.95 | 61.06 - 68.85 | g/100g of sample | 89 |
| Poly-unsaturates | 24.42 | 21.97 - 26.86 | g/100g of sample | 91 |
| Lauric Acid (C12:0) | 0.0288 | 0.0224 - 0.0351 | g/100g of sample | 62 |
| Myristic Acid (C14:0) | 0.0539 | 0.0420 - 0.0657 | g/100g of sample | 74 |
| Palmitic Acid (C16:0) | 4.27 | 3.84 - 4.70 | g/100g of sample | 92 |
| Stearic Acid (C18:0) | 1.93 | 1.74 - 2.12 | g/100g of sample | 92 |
| cis-Vaccenic acid (C18:1 n-7 cis) | 2.94 | 2.47 - 3.41 | g/100g of sample | 37 |
| Oleic Acid (C18:1 n-9 cis) | 61.89 | 58.18 - 65.61 | g/100g of sample | 70 |
| Sum of cis-vaccenic acid (C18:1 n-7) + oleic acid (C18:1 n-9 cis) | 63.46 | 59.65 - 67.27 | g/100g of sample | 58 |
| Linoleic Acid (C18:2 n-6) | 17.42 | 15.68 - 19.16 | g/100g of sample | 90 |
| alpha-Linolenic Acid (ALA, C18:3 n-3) | 6.91 | 6.22 - 7.60 | g/100g of sample | 87 |
| Arachidic Acid (C20:0) | 0.573 | 0.515 - 0.630 | g/100g of sample | 87 |
| Gondoic Acid (C20:1 n-9) | 1.14 | 1.03 - 1.25 | g/100g of sample | 85 |
| Behenic Acid (C22:0) | 0.341 | 0.307 - 0.375 | g/100g of sample | 83 |
| Lignoceric Acid (C24:0) | 0.191 | 0.149 - 0.233 | g/100g of sample | 76 |
| C18:1 Trans | 0.912 | 0.310 - 1.514 | g/100g of sample | 71 |
| C18:2 Trans | 0.0385 | 0.0131 - 0.0639 | g/100g of sample | 41 |

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|-------------------------|-------|---------------|------------------|----|
| C18:3 Trans | 0.110 | 0.037 - 0.182 | g/100g of sample | 50 |
| Total Trans Fatty Acids | 1.04 | 0.36 - 1.73 | g/100g of sample | 66 |

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| This data sheet is applicable until | 11 Jul 2023 |
| Recommended Storage on receipt | Ambient |
| Notes | |
| <ul style="list-style-type: none"> • Mix the QC material thoroughly before taking a representative analytical sample • The assigned value has been derived from the consensus of laboratories taking part in this proficiency test, using a variety of methods. This is not a certified reference value. • The Range for $z \leq 2$ is the concentration range within the limits of ± 2 z-scores. The assigned value and its range have been established from the proficiency test data and are suitable for use by laboratories as a fit-for-purpose quality control measure. • Stability of the QC material has been established as sufficient for the scope of the proficiency test from previous experience, expert advice and published literature. FAPAS advises that the QC material is analysed within the recommended date. FAPAS QC materials are intended to be used as single-analysis samples. • Full details on the proficiency test procedure used to characterise this QC material are available in the Protocol, Part 1 - Common Principles, freely available to download from the FAPAS website. • You may use any method of analysis you wish. | |