

## VeriCal® Raw Milk - Data Summary Sheet

CODE 1203 WITH RED CAPS AND BLUE LABELS

Issue Date: 1 February 2018

Expiry Date: 12 March 2018

Version: 2

**Table 1. Fat, Lactose, Crude Protein, True Protein, Solids Non Fat & Total Solids**

(Expressed in %m/v - milk)

| Sample ID      | Composition                            | Assigned Values      |                                      |                                |                               |                                 |                               |
|----------------|--|----------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------------|-------------------------------|
|                |  | Fat (n)<br>[g/100ml] | Lactose Monohydrate (n)<br>[g/100ml] | Crude Protein (n)<br>[g/100ml] | True Protein (n)<br>[g/100ml] | Solids Non Fat (n)<br>[g/100ml] | Total Solids (n)<br>[g/100ml] |
| 1              | Skim milk and water                    | 1.96 (12)            | 4.65 (7)                             | 3.13 (12)                      | 2.95 (12)                     | 8.37 (12)                       | 10.31 (11)                    |
| 2              | Whole milk, skim milk and water        | 2.99 (12)            | 4.84 (7)                             | 3.27 (12)                      | 3.09 (12)                     | 8.70 (12)                       | 11.69 (12)                    |
| 3              | Whole milk only                        | 4.03 (12)            | 4.94 (7)                             | 3.33 (12)                      | 3.15 (12)                     | 8.87 (12)                       | 12.90 (12)                    |
| 4              | Cream, whole milk and skim milk        | 4.56 (12)            | 4.88 (7)                             | 3.67 (12)                      | 3.48 (11)                     | 9.09 (12)                       | 13.68 (11)                    |
| 5              | Cream, whole milk and skim milk        | 5.22 (10)            | 4.84 (7)                             | 3.85 (9)                       | 3.65 (10)                     | 9.34 (12)                       | 14.55 (10)                    |
| 6              | Cream, whole milk and skim milk        | 5.90 (10)            | 4.77 (8)                             | 4.12 (10)                      | 3.94 (9)                      | 9.59 (10)                       | 15.49 (10)                    |
| 7              | Cream, whole milk, skim milk and water | 6.57 (8)             | 4.59 (8)                             | 4.46 (11)                      | 4.28 (12)                     | 9.72 (10)                       | 16.31 (12)                    |
| <b>Methods</b> |  | Gravimetric          | HPLC                                 | Kjeldahl                       | Kjeldahl                      | Gravimetric                     | Gravimetric                   |

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Table 2. Fat, Lactose, Crude Protein, True Protein, Solids Non Fat & Total Solids

(Expressed in %m/m - milk)

| Sample ID      | Composition                            | Assigned Values     |                                     |                               |                              |                                |                              |
|----------------|--|---------------------|-------------------------------------|-------------------------------|------------------------------|--------------------------------|------------------------------|
|                |  | Fat (n)<br>[g/100g] | Lactose Monohydrate (n)<br>[g/100g] | Crude Protein (n)<br>[g/100g] | True Protein (n)<br>[g/100g] | Solids Non Fat (n)<br>[g/100g] | Total Solids (n)<br>[g/100g] |
| 1              | Skim milk and water                    | 1.91 (12)           | 4.52 (7)                            | 3.04 (12)                     | 2.87 (12)                    | 8.12 (12)                      | 10.02 (11)                   |
| 2              | Whole milk, skim milk and water        | 2.90 (12)           | 4.70 (7)                            | 3.17 (12)                     | 2.99 (12)                    | 8.41 (10)                      | 11.31 (10)                   |
| 3              | Whole milk only                        | 3.90 (12)           | 4.79 (7)                            | 3.23 (12)                     | 3.05 (12)                    | 8.60 (12)                      | 12.48 (10)                   |
| 4              | Cream, whole milk and skim milk        | 4.42 (12)           | 4.74 (7)                            | 3.56 (12)                     | 3.38 (12)                    | 8.84 (11)                      | 13.26 (11)                   |
| 5              | Cream, whole milk and skim milk        | 5.06 (10)           | 4.69 (8)                            | 3.73 (9)                      | 3.55 (9)                     | 9.06 (12)                      | 14.06 (8)                    |
| 6              | Cream, whole milk and skim milk        | 5.72 (10)           | 4.63 (8)                            | 3.99 (10)                     | 3.82 (9)                     | 9.30 (10)                      | 15.02 (10)                   |
| 7              | Cream, whole milk, skim milk and water | 6.39 (10)           | 4.48 (7)                            | 4.33 (12)                     | 4.15 (12)                    | 9.42 (10)                      | 15.79 (11)                   |
| <b>Methods</b> |  | Gravimetric         | HPLC                                | Kjeldahl                      | Kjeldahl                     | Gravimetric                    | Gravimetric                  |

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**Intended Use:** For the confirmation of FTIR instrument calibration used to determine attributes of Raw Bovine Milk.

**Description:** 50ml+ coloured and preserved samples packaged in amber glass bottles

**Homogeneity:** These materials have been assessed as homogeneous

**Stability:** An expiry period consistent with the shelf life of the product and/or estimated from stability studies has been applied

**Storage:** Store samples refrigerated (approximately 4°C). Once opened, samples will be unstable due to oxidation and evaporation.

**Assigned Values:** The Mean is the simple mean excluding outliers and n (in brackets) is the number of results used.

**Quality Statement:** The values shown have been generated using results from independent testing laboratory(ies) accredited under the General requirements for the competence of testing and calibration laboratories to ISO/IEC 17025. These procedures are based on ISO 17034, and ISO Guides 31 and 35, which relate to the production, certification and quality system requirements of Reference Materials.