EUROPEAN COMMISSION
DIRECTORATE GENERAL
JOINT RESEARCH CENTRE
Directorate F - Health, Consumers & Reference Materials (Geel)

CERTIFIED REFERENCE MATERIAL
BCR® – 685

CERTIFICATE OF ANALYSIS

SKIM MILK POWDER		
	Mass fraction [1]	
	Certified value [3] [g/100 g]	Uncertainty [4] [g/100 g]
Crude protein[2] (Kjeldahl-N x 6.38)[2]	38.2	0.4
Fat	0.96	0.12

1) Results are corrected for dry mass.
2) As obtained using the methods indicated overleaf.
3) Unweighted mean value of the means of accepted sets of results, each set being obtained in a different laboratory applying relevant methods of analysis standardised by IDF/ISO and AOAC.
4) Expanded uncertainty with a coverage factor $k = 2$, corresponding to a level of confidence of about 95 %.

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample shall conform to requirements as specified in the standardised IDF/ISO and AOAC methods used for value assignment.

Geel, January 2008
Latest revision: January 2017

Signed:

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DESCRIPTION OF THE SAMPLE

The material consists of commercial skim milk powder. It is supplied in units of about 50 g in amber glass bottles fitted with a polyethylene insert and a tamper evident screw cap.

ANALYTICAL METHOD USED FOR CERTIFICATION

- **Crude protein content** (Kjeldahl-nitrogen x 6.38)**:** IDF standards 20-1 to 2:2001 and 3:2004, equivalent to ISO 8968-1 to 2:2001 and 3:2004
- **Total fat content:** IDF standard 9C:1987, equivalent to ISO 1736:2000
- **Dry mass:** IDF standard 26A:1993

PARTICIPANTS

- Agence Française de Sécurité Sanitaire des Aliments (AFSSA), Maisons-Alfort (FR)
- Centraal Orgaan voor Kwaliteitsaangelegenheden in de Zuivel (COKZ), Leusden (NL)
- Centrum voor Landbouwkundig Onderzoek, Departement Kwaliteit van Dierlijke Producten en Transformatietechnologie (CLO), Melle (BE)
- Direct Laboratory Services Limited, Wolverhampton (GB)
- Institut Provincial d'Hygiène et de Bactériologie du Hainaut, Mons (BE)
- National Veterinary and Food Research Institute, Helsinki (FI)
- Rijkskwaliteitsinstituut voor Land- en Tuinbouwproducten (RIKILT), Wageningen (NL)

SAFETY INFORMATION

The usual laboratory safety precautions apply.

INSTRUCTIONS FOR USE

The material is intended for method validation, in particular checking trueness of results obtained by standardised methods for the determination of the content of crude protein (Kjeldahl-N x 6.38) and fat in skim milk powder.

Leave the bottle at room temperature for equilibration, then mix the contents of the unopened bottle carefully by inverting and swirling it several times.

Dispose in accordance with good laboratory practice.

STORAGE

BCR-685 shall be stored at -20 ± 5 ˚C in the dark.

However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.

LEGAL NOTICE

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NOTE

A detailed technical report is available on https://crm.jrc.ec.europa.eu. A paper copy can be obtained from the Joint Research Centre Directorate F – Health, Consumers and Reference Materials on request.

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