

JOINT RESEARCH CENTRE
Institute for Reference Materials and Measurements

CERTIFICATE OF ANALYSIS

ERM[®] - BB493

PARTIALLY SKIMMED MILK	
	Mass fraction
	Certified value ²⁾ [µg/kg]
Oxytetracycline (sum of oxytetracycline and 4-epi-oxytetracycline) ¹⁾	< 5
<p>1) Oxytetracycline as measured by liquid chromatography - tandem mass spectrometry.</p> <p>2) The value is applicable to the material when reconstituted according to the specified procedure (page 3). The value corresponds to the limit of quantification (LOQ) of the most sensitive method in the characterisation study. The mass fraction of oxytetracycline in ERM-BB493 is below the stated value with a 95 % level of confidence. The value is traceable to the International System of Units (SI).</p>	

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 3.5 g reconstituted material.

NOTE

European Reference Material ERM[®]-BB493 was produced and certified under the responsibility of the Institute for Reference Materials and Measurements of the European Commission's Joint Research Centre according to the principles laid down in the technical guidelines of the European Reference Materials[®] co-operation agreement between BAM-IRMM-LGC. Information on these guidelines is available on the internet (<http://www.erm-crm.org>).

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Signed:



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DESCRIPTION OF THE SAMPLE

One unit contains approximately 5.5 g of spray-dried partially skimmed milk filled under inert gas in a 30 mL amber glass vial. The water mass fraction of the spray-dried powder is 2.69 ± 0.11 g/100 g.

ANALYTICAL METHOD USED FOR CERTIFICATION

All results were obtained employing liquid chromatography - tandem mass spectrometry and liquid chromatography - diode array detection methods. Different sample preparation procedures (extraction and clean-up) were applied.

PARTICIPANTS

Agence Nationale de Sécurité Sanitaire Agence Nationale de Médicament Vétérinaire, Fougères, FR
(Measurements performed under ISO/IEC 17025 accreditation; COFRAC 1-0247)

Bundesamt für Verbraucherschutz und Lebensmittelsicherheit (BVL), Berlin, DE
(Measurements performed under ISO/IEC 17025 accreditation; AKS-PL-12005)

Danish Veterinary and Food Administration, Region East, Ringsted, DK
(Measurements performed under ISO/IEC 17025 accreditation; DANAK 405)

Institute of Food Safety, Animal Health and Environment "BIOR", Riga, LV
(Measurements performed under ISO/IEC 17025 accreditation; DAP-PL-3414.00)

National Veterinary Institute, Laboratory for Residue Analyses, Ljubljana, SI
(Measurements performed under ISO/IEC 17025 accreditation; Slovenska Akreditacija LP-021)

The Food and Environment Research Agency, Veterinary Medicines Services, York, UK
(Measurements performed under ISO/IEC 17025 accreditation; UKAS 1642)

Universiteit Gent, Vakgroep Farmacologie, Toxicologie en Biochemie, Gent, BE
(Measurements in conformity with GLP according to Directive 2004/9/EC)

SAFETY INFORMATION

The usual laboratory safety precautions apply.

INSTRUCTIONS FOR USE AND INTENDED USE

Reconstitution of the sample

- Allow the bottle to warm up to ambient temperature; shake vigorously for at least 30 s before opening.
- Weigh accurately an aliquot of 1.00 ± 0.01 g. The weighing should be performed immediately after opening of the vial to minimise water uptake by the powder.
- Add an accurately weighed amount of 8.15 ± 0.01 g of distilled water to the powder.
- The sample has to be homogenised by adding a magnetic stirring bar to the powder/water mixture, and stirring for 10 - 15 min at room temperature.
- In case the working instruction of the laboratory's method foresees a higher/lower sample intake than 9.15 g of reconstituted material, the 1:8.15 m/m ratio of powder to distilled water has to be maintained. It shall be noted that most methods have smaller sample intakes per analysis, and that the sample intake usually is an aliquot of the amount of reconstituted milk.

The certified value is not related to dry mass. Laboratories may wish to verify whether the dry mass content of the material is above 95 m/m % by applying procedure ISO 5537:2004/IDF 26:2004. In any case, water uptake shall be avoided while handling the material (see below).

This material is a blank material and is intended to be used for method performance control and validation purposes.

Dispose in accordance with good laboratory practice.

STORAGE

The material should be stored at a temperature of -20 ± 5 °C.

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 www.irmm.jrc.be. A paper copy can be obtained from the Joint Research Centre, Institute for Reference Materials and Measurements on request.

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