

Animal feeding stuffs: Methods of sampling and analysis
- Screening and determination of authorized
coccidiostats at additive and 1 % and 3 %
cross-contamination levels, and of non-registered
coccidiostats and of one antibiotic at sub-additive
levels, in compound feed with High Performance Liquid
Chromatography - Tandem Mass Spectrometry
detection (LC-MS/MS)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 17299:2019 sisaldab Euroopa standardi EN 17299:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 17299:2019 consists of the English text of the European standard EN 17299:2019.
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English Version

Animal feeding stuffs: Methods of sampling and analysis -
Screening and determination of authorized coccidiostats at
additive and 1 % and 3 % cross-contamination level, and
of non-registered coccidiostats and of one antibiotic at
sub-additive levels, in compound feed with High
Performance Liquid Chromatography - Tandem Mass
Spectrometry detection (LC-MS/MS)

Aliments des animaux: Méthodes d'échantillonnage et
d'analyse - Recherche et dosage dans des aliments
composés pour animaux des coccidiostatiques
autorisés au taux d'additif et de contamination croisée
à 1 % et 3 %, de coccidiostatiques non enregistrés et
d'un antibiotique aux taux sub-additifs, par
chromatographie en phase liquide à haute
performance couplée à une détection par
spectrométrie de masse en tandem (CL-SM/SM)

Futtermittel - Probenahme- und
Untersuchungsverfahren - Bestimmung zugelassener
Kokzidiostatika in Konzentrationen von Zusatzstoffen
und deren Verschleppungen im Bereich von 1 % bis 3
% in Mischfuttermitteln mittels Hochleistungs-LC-MS

This European Standard was approved by CEN on 17 June 2019.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 17299:2019) has been prepared by Technical Committee CEN/TC 327 “Animal feeding stuffs – Methods of sampling and analysis”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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1 Scope

This document specifies a high performance liquid chromatographic – tandem mass spectrometry (HPLC-MS/MS) method for the simultaneous screening and/or determination of the eleven authorized coccidiostats (halofuginone hydrobromide, robenidine hydrochloride, nicarbazin, diclazuril, decoquinate, monensin sodium, salinomycin sodium, narasin, lasalocid A sodium, semduramicin sodium and maduramicin ammonium alpha) contents in compound feeds and feed materials of plant origin at additive and cross-contamination levels and of the five non-registered coccidiostats (ethopabate, clodolol, ronidazole, dimetridazole and amprolium) at sub-additive levels and for the screening of the prohibited furazolidone antibiotic at sub-additive level, in the same matrices. It has been fully validated only for poultry, cattle and pig compound feeds.

The range of application of the method is fit for the purpose of the screening and determination of all eleven registered coccidiostats at the values set by European legislation, of the non-registered coccidiostats and of the screening of the banned antibiotic.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 6498, *Animal feeding stuffs — Guidelines for sample preparation (ISO 6498)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

Internal Standard

I.S.

compound of known concentration added to a sample to facilitate the qualitative identification and/or quantitative determination of the sample components

[SOURCE: ISO 20752:2014, 3.2]

3.2

target feed

feed for target animal species or categories for which the additives are intended

[SOURCE: Commission Regulation (EC) No 124/2009]

3.3

non-target feed

feed for which the use of coccidiostats or histomonostats are not authorised, such as feed intended for animal species or categories not provided for in the additive authorisation

[SOURCE: Commission Regulation (EC) No 124/2009]