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Animal feeding stuffs — Methods of sampling and analysis — PFGE typing of Lactobacilli, Pediococci, Enterococci and Bacilli in animal feeds

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The UK participation in its preparation was entrusted to Technical Committee AW/10, Animal feeding stuffs.

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English Version

Animal feeding stuffs - Methods of sampling and analysis - PFGE typing of Lactobacilli, Pediococci, Enterococci and Bacilli in animal feeds

Aliments des animaux : Méthodes d'analyse - Typage EGCP des lactobacilles, pédiocoques, entérocoques et bacilles dans les aliments des animaux

Futtermittel: Probenahme- und Untersuchungsverfahren - PFGE Typisierung von Laktobazillen, Pediokokken, Enterokokken und Bazillen in Futtermitteln

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (CEN/TS 17697:2023) 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.

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Introduction

DNA fingerprinting by pulsed field gel electrophoresis (PFGE) allows the comparison of large restriction fragments greater than 50 kbp. This technique combined with restriction of the DNA molecule by rare cutting endonucleases (which recognize 6 or 8 base pair sequences) has been successfully applied to strain typing of various lactic acid bacteria including Lactobacilli and Pediococci.

This protocol describes the preparation of genomic DNA for Pulsed Field Gel Electrophoresis and further details of the PFGE typing procedure.

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