

ISO 15163:2012-05 (E)

Milk and milk products - Calf rennet and adult bovine rennet - Determination by chromatography of chymosin and bovine pepsin contents

Contents	Page
Foreword	iv
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Principle	1
4 Reagents	2
5 Apparatus	3
6 Sampling	4
7 Procedure	4
7.1 Check	4
7.2 Preparation of a fresh column with Fractogel	4
7.3 Regeneration and equilibration of the Fractogel resin in the column	4
7.4 Storage of the column with Fractogel	5
7.5 Preparation of test sample	5
7.6 Analysis of the desalted rennet	6
7.7 Determination of the clotting times	7
8 Calculation and expression of results	8
8.1 Calculation of the activity of chymosin and pepsin, expressed as a percentage	8
8.2 Calculation of active chymosin and active bovine pepsin, in milligrams per litre	9
8.3 Expression of results	10
9 Precision	10
9.1 Interlaboratory test	10
9.2 Repeatability	10
9.3 Reproducibility	11
10 Test report	11
Annex A (informative) Qualitative determination by double immunodiffusion of milk-coagulating enzymes in commercial coagulants	12
Annex B (informative) Interlaboratory test	17
Bibliography	19