

# Technical Information

Revision: 07-2012

## WalcoRen<sup>®</sup> 97P100

### Premium 97 PLUS

Pure Natural Rennet Powder



You cannot improve on nature....

#### General Product Information

- Enzyme extraction, as with all WalcoRen<sup>®</sup> natural products is done through an extraction process which was developed in Kufstein. This process guarantees the highest production purity and above all, the most consistent production quality.
- In a further especially developed natural production step - traditional enzyme precipitation by using table salt only - the Chymosin is extracted and subsequently separated from the remaining liquid. All WalcoRen<sup>®</sup> powdered rennet products are exclusively produced using this natural process.
- A fault free system of control from the slaughter house to delivery of the finished product guarantees precise batch traceability.
- WalcoRen<sup>®</sup> Premium 97P100 is free of any added preservatives.

#### Product description

- WalcoRen<sup>®</sup> Premium 97P100 stands for natural calf vell rennet in powder form containing min. 97% Chymosin and max. 3% Pepsin (IDF 110B:1997).
- WalcoRen<sup>®</sup> Premium 97P100 is in the form of a white to yellow fine crystalline powder. Small colour differences between individual batches depend on the natural raw materials employed.
- WalcoRen<sup>®</sup> Premium 97P100 is neither genetically manufactured (like FPC) nor does it contain genetically modified milk coagulating enzymes. Not genetically modified according to the following regulation: (EC) 258/97, (EC) 1139/98, (EC) 49/2000, (EC) 50/2000 and (EC) 2092/91 current versions.
- WalcoRen<sup>®</sup> Premium 97P100 corresponds to EC specific directives for the dairy industry.

#### Specification

Activity and composition

Soxhlet	1:100.000	± 5%
IMCU IDF 157A:1997	914	± 5%
mg Chymosin / Litre	5.450	± 5%
Ratio mg Pepsin / mg Chymosin	1:21,0	± 5%
Chymosin IDF:110B:1997	97%	≥ 3%
Pepsin IDF:110B:1997	3%	≤ 3%

#### Chemical Specification

Density	1,00 – 1,15 g
Table-salt – NaCl	95% - 97%
Sodium-Benzoate E211	none added

#### Microbiological Analysis

- This rennet has been microbiologically analysed in accordance with the analysis regulations of the Swiss Dairy commission and it fulfils all the bacteriological demands.

Total plate count	<1000/g
Salt tolerant bacteria	<100/g
Aerobic spore formers	<10/g
Anaerobic spore formers	<1/ g
Propionic acid bacteria	negative in 1 g
Yeasts/moulds	negative in 1 g
Coliform bacteria	negative in 1 g
Salmonella	negative in 25 g
Listeria	negative in 25 g
Staphylococcus Aureus	negative in 25 g

- The above bacteriological analysis details are valid only for correct storage at 0-8°C and for containers with their original seals.

#### Application

- The product range WalcoRen<sup>®</sup> Premium 97P100 is the top quality product of the WalcoRen<sup>®</sup> rennet powder product line.
- **The dosage quantity is determined by the quantity of milk, the required process parameters and the enzyme concentration - pH, temperature, required coagulation time, pasteurised milk.**
- WalcoRen<sup>®</sup> Premium 97P100 should be diluted into 15 to 30 times the amount of chlorine free cold water and then be added to the milk.

#### Safety Information

- WalcoRen<sup>®</sup> Premium 97P100 is a fine crystalline powder and contains approx. 95% table-salt (NaCl) and is therefore safe to utilise.

#### Storage

- As with all natural enzymes, WalcoRen<sup>®</sup> Premium 97P100 should also be stored at a dark place at a temperature of between 0°C and +15°C.



Organic Certified