



659 Andover Street
Lawrence, MA 01843-1032, USA
Tel: 1.978.687.9200 Fax: 1.978.687.9216

CERTIFICATE OF ANALYSIS

PRODUCT: 100 ml Zero Control Standard

LOT NUMBER: ZCS-014B

EXPIRATION DATE: December 2017

ORDER CODE: ZCS, ZCS-10, ZCS-20

DESCRIPTION: Zero Control Standard is certified organic whole milk powder from bovines of USA only. When reconstituted as indicated on the label (with 100 ml of 40°C water), it is comparable, within 10% of antimicrobial drug-free and aflatoxin-free cow's milk.

Zero Control Standard is qualified as antimicrobial drug-free and aflatoxin-free by the Charm II Tests for Beta-lactams, Sulfa Drugs, Tetracyclines, Macrolides, Aminoglycosides, Novobiocin, Chloramphenicol and Other Amphenicols, and Aflatoxins, and ROSA MRL Beta-lactam Test.

Finished product quality control approval is based on the Charm II Tests, the ROSA MRL Beta-lactam Test, the Charm *B.stearothermophilus* Tablet Disc Assay, and the broad spectrum microbial inhibition Charm CowSide II and Blue-Yellow II Tests. Shelf life studies, heat stress studies and frozen stability studies are performed to verify operator's manual claims.

PREPARATION: See operator's manual.

STORAGE: See operator's manual.

PREPARED BY: David R. Legg

SIGNATURE:

TITLE: Vice President, Quality Assurance

DATE: December 18, 2015

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