



## ECLIPSE TEST

ECLIPSE is a broad-range screening test designed for the qualitative detection of antibiotics in milk, when present in levels above the recommended Maximum Residue Limits (MRLs)

The method follows the **European Commission Decision 91/180/CEE** and is based on the inhibition of *Geobacillus stearothermophilus* var. *calidolactis*. Samples are added to 96-well microplates or tubes containing a solid agar media, bacillus spores and a pH indicator. A colour change of the agar (negative results) will occur when not inhibitors are presented in the samples.

The method has been validated by ZEU-INMUNOTEC following the guidelines stated by **IDF 183:20039 (ISO 13969:2003)**, where limits of detection, test variability, false positives, etc were studied (more information in the technical report).

ZEU-INMUNOTEC works under the ISO 9001:2000 and all our suppliers and products go through strict quality controls.

Each ECLIPSE production batch includes a certificate of analysis, result of several quality controls that assure the kit performance.

The test also takes part in ring trials organised by the Spanish Ministry several times per year (information provided on request).

Eclipse is widely used by the Spanish "Inter-professional labs" and was chosen as official method in France for two years. The test is also worldwide utilised in countries such as Korea, China, Thailand, Argentina, Italy, Romania, Turkey, etc.

Publications: Evaluations on the Eclipse test performance have been published in national and international journals, some examples as follows:

A. Montero, R.L. Althaus, A. Molina, I. Berruga, M.P. *Molina*. *Detection of antimicrobial agents by a specific microbiological method (Eclipse 100) for ewe milk*. Small Ruminant Research, 57 (2005) 229-237.

M.I. Berruga, M. Yamaki, R.L. Althaus, M.P. Molina & A. Molina. "*Performances of antibiotics Screening tests in determining the persistence of penicillin residues in ewe's milk*" Journal of Food Protection, 66, vol 10 ( 2003).