

LEGIPID[®] LEGIONELLA FAST DETECTION KIT. REF. 311-10-01/02/04

◦ **Description**

The Legipid[®] Legionella Fast Detection kit directs your analysis to *Legionella spp* intact free cells. Its performance is based on three chemical reactions: a capture reaction, a labeling reaction (both are antigen-antibody), and a third type based on an enzymatic reaction.

◦ **Features**

- ◆ Fast. Obtaining the analytical result in 50-60 minutes.
- ◆ Reliability.
- ◆ Easy to use. Low operator skill is required.
- ◆ Shelf life of 3 months.
- ◆ Storage: 2-8°C.
- ◆ Preventive value.
- ◆ Use as screening or alternative method
- ◆ Qualitative or Quantitative results
- ◆ Validated and certified

◦ **Data validation**

- ◆ Bacteria detected: *Legionella spp*.
- ◆ Concentration method: membrane filtration.
- ◆ Method of detection: immunomagnetic capture and enzyme immunoassay.
- ◆ Validation data without culture confirmation:
 - Sensitivity: 95.3%
 - Specificity: 88.4%
 - Falses positives: 11.6%
 - Falses negatives: 4.7%
 - Efficiency: 92.4%
- ◆ Data validation with culture confirmation:
 - Sensitivity: 95.3%
 - Specificity: 100.0%
 - Falses positives: 0%
 - Falses negatives: 4.7%
 - Efficiency: 97.3%
- ◆ LOD50 = 93 cfu/volume examined (Qualitative analysis)
- ◆ LOD= 40 cfu/volume examined (Quantitative analysis)
- ◆ LOQ=60 cfu/volume examined (Quantitative analysis)
- ◆ Sample volume: 9 ml

◦ **Calibration line**

$Y = 2.3061 \cdot X + 4.9815$; Y= Log Concentration (cfu/test), X= Log Abs_r, Abs_r= Abs (T) test – Abs (C), cfu= colony forming units, Abs_r=relative absorbance to 429 nm, Abs (T)= test absorbance (sample), Abs (C) = negative control absorbance (white)