

PRODUCTIVITY

RELIABILITY

SPECIFICITY

Result
in **48h**

MICA
Advance

Legionella

Legionella pneumophila

Domestic Hot Water (DHW)
Cooling Tower Water

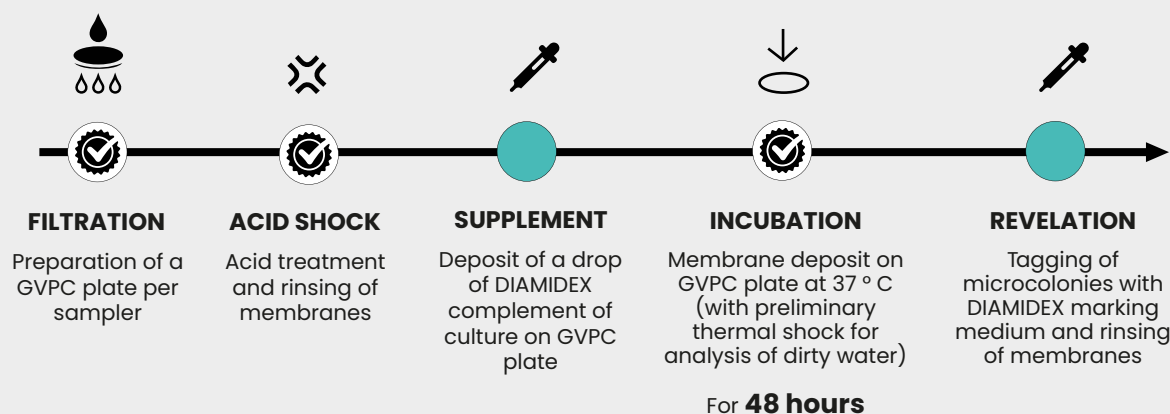


- ✓ **Results equivalent to ISO 11731 standard method**, in CFU/l, but simpler procedure
- ✓ **Detects and counts exclusively *L. pneumophila***, all serogroups
- ✓ **4' of labor time per analysis** against 25' on average with the standard method
- ✓ **No additional confirmation required**
- ✓ **Up to 500 analyses per 8 hours**
- ✓ **Only one GVPC plate per sample**, vs 5 to 10 with standard method
- ✓ **Delivers results after only 48 hours of incubation**, against 10 to 14 days with the standard method
- ✓ **Limit of detection:**
1 CFU* / liter for domestic hot waters
100 CFU* / liter for cooling tower waters



MICA Legionella** technology
certified by AOAC

Protocol based on the **ISO 11731** method



More info

> diamidex.com

MATRICES TESTED

Domestic hot water (DHW) and Cooling tower water.

19%

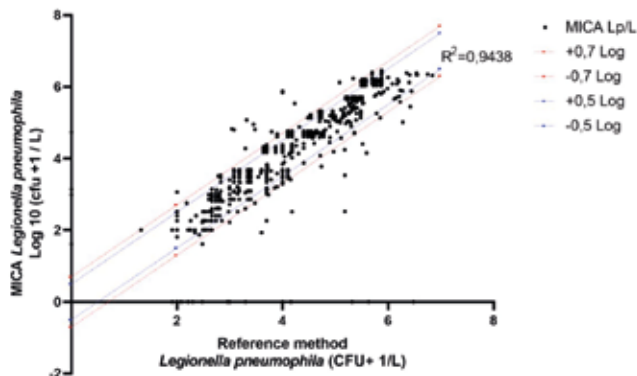
Cooling Tower

1 495
samples

81%
DHW

COMPARISON WITH ISO 11731

Tested on **1,495** comparisons of domestic water samples and cooling tower water, according to the MICA Legionella and ISO 11731 protocols.



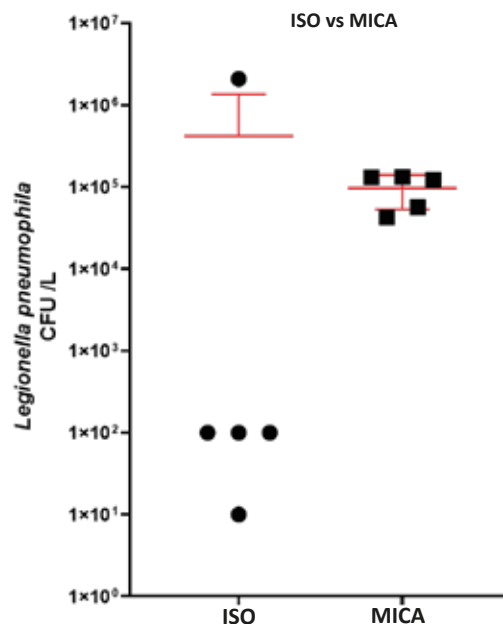
Specificity: 99.7%
Sensitivity: 96.2%
NPV: 95%
PPV: 99.8%

INCLUSIVITY / EXCLUSIVITY

SPECIES / SEROGROUPS	NUMBER OF STRAINS	ORIGIN	DETECTION WITH MICA
<i>L. pneumophila</i> - Serogroup 1	9	ATCC 33152, CIP 107629, CIP 108286, CIP 105349 + 5 environmental strains	+
<i>L. pneumophila</i> - Serogroups 2-15	23	ATCC 33154, ATCC 33155, ATCC 35289, DMS 25225, ATCC 43703 + 18 environmental strains	+
<i>Legionella</i> spp.	15	<i>L. anisa</i> , <i>L. bozemanii</i> , <i>L. cincinnatiensis</i> , <i>L. feeleeii</i> , <i>L. geestiana</i> , <i>L. gormanii</i> , <i>L. jordanis</i> , <i>L. longbeachae</i> , <i>L. maceachernii</i> , <i>L. micdadei</i> , <i>L. moravica</i> , <i>L. nagasakiensis</i> , <i>L. spiritensis</i> , <i>L. tucsonensis</i> , <i>L. waltersii</i>	-
Other species	13	<i>Acinetobacter baumannii</i> , <i>Bacillus cereus</i> , <i>Candida albicans</i> , <i>Citrobacter freundii</i> , <i>Escherichia coli</i> Migula, <i>Enterococcus faecalis</i> , <i>Listeria monocytogenes</i> , <i>Pseudomonas aeruginosa</i> , <i>Pseudomonas fluorescens</i> , <i>Staphylococcus aureus</i> , <i>Staphylococcus epidermidis</i> , <i>Klebsiella pneumoniae</i> , <i>Salmonella typhimurium</i>	-

VARIABILITY OF RESULTS

Real cooling tower water sample divided into 10 equal portions and sent to 5 COFRAC laboratories for analysis using the ISO 11731 reference method and 5 analyses with MICA *Legionella* produced by DIAMIDEX.



* CFU : Colony Forming Unit

** MICA Advance uses MICA technology with a counter allowing automatic loading.