



VIDAS® *Listeria species* (LIS) #30700 test detection solution is AOAC-RI certified for Environmentals

## Certificate of Performance Tested<sup>SM</sup> Status

### CERTIFICATE NO.981202

VIDAS® LIS (30700) is an automated qualitative test for use on VIDAS Instruments for the specific detection of *Listeria* in food products and environmental samples. Data was compared to the USDA/FSIS *Listeria* reference method.

#### *Listeria* Data Set

Data set included (3) *L. monocytogenes*, (1) *L. innocua*, (1) *L. welshimeri*, (1) *L. seeligeri*, (2) *L. grayi* and (1) *L. ivanovii*. Isolates were tested on multiple surfaces individually or in the presence of background E.coli

#### Non *Listeria* Data set

Data set included 11 non-*Listeria* strains, *Bacillus subtilis*, *Brevibacterium linens*, *Brochothrix thermosphactum*, *Escherichia coli*, *Lactobacillus casei*, *Enterococcus faecium*, *Erysipelothrix rhusiopathiae*, *Kurthia sopfii*, *Lactococcus lactis supsp. lactis*, *Pseudomonas fragii*, and *Staphylococcus aureus*.

#### Surfaces Evaluated

Surfaces evaluated Included Plastic, Rubber, Ceramic Tile, Stainless Steel, Cast Iron, Concrete, Air Filter, Wood, and Painted Wood



## Listeria monocytogenes Summary Table:

Results % True Positive Samples

Environmental Surface	VIDAS % Pos Strain 1/2 a	USDA % Pos Strain 1/2 a	VIDAS % Pos Strain 1/2 b	USDA % Pos Strain 1/2 b	VIDAS % Pos Strain 4b	USDA % Pos Strain 4b
Plastic	88	75	100	100	100	100
Rubber	25	38	100	100	100	100
Ceramic Tile	25	25	100	100	100	100
Stainless Steel	88	75	100	100	100	100
Cast Iron	88	100	100	100	100	100
Concrete	38	38	100	90	100	100
Air Filter	100	88	100	100	100	100
Wood	13	13	90	90	90	90
Painted Wood	38	25	70	60	70	50
% Total Pos	55	53	97	93	96	93

## Listeria species Summary Table:

Results % True Positive Samples from Stainless Steel

Organism Inoculum	VIDAS % Pos Strain 1/2 a	USDA % Pos Strain 1/2 a
Listeria welshimeri	88	63
Listeria grayi	0	0
Listeria innocua	100	88
Listeri ivanovii	38	50
Listeria seeligeri	100	100
% Total Pos	55	44

At the surface inoculation level of  $10^5$  CFU/mL, *Listeria grayi* and *Listeria murrayi* strains were not detected by the VIDAS or standard USDA-FSIS methods. The (2) *L.grayi* was previously detected by the VIDAS LIS Assay at levels as low as  $4.5 \times 10^4$  and  $4.7 \times 10^4$  CFU/mL. These two *Listeria grayi* may be more difficult to recover following the surface drying than other *Listeria* species.

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