



## HiCrome™ Listeria Agar Base / Modified

Recommended as a selective and differential agar medium recommended for rapid and direct identification of *Listeria* species.

M1417F/  
M1417

### Limitations

1. Some species may show poor growth due to nutritional variations.
2. Slight colour variation may be observed depending upon the utilization of the substrate by the organism.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the recommended temperature.

### Quality Control

- Appearance of powder** : Light yellow to pink coloured, homogeneous, free flowing powder.
- Gelling** : Firm, comparable with 1.3% Agar gel.
- Colour and Clarity of prepared medium** : Red coloured, clear to slightly opalescent gel forms in Petri plates.
- Reaction** : Reaction of 6.72% w/v aqueous solution of M1417 at 25°C. pH : 7.3 ± 0.2.  
Reaction of 7.32% w/v aqueous solution of M1417F at 25°C. pH : 7.3 ± 0.1.
- Cultural Response** : Cultural characteristics observed with added HiCrome™ Listeria Selective Supplement (FD181) after incubation at 35-37°C for 24-48 hours.

### Storage and Shelf-life

Store between 2-8°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

### Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (5, 6).

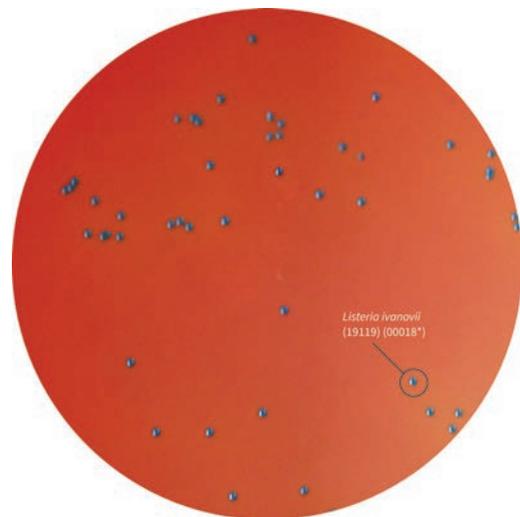
### References

1. FDA U.S., Bacteriological Analytical Manual 8 ed. Gaithersburg, MD, AOAC international, 1998.
2. Mengaud J., Braun-Breton C. and Cossart P., (1991), Molecular Microbiology, (2): 367-372.
3. Notermans S.H. and Dufrenne J., (1991), Applied and Environmental Microbiology, 57(09):2666-70.
4. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
6. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Colour of colony	(M1417) Rhamnose fermentation	(M1417F) Xylose fermentation
<i>Listeria monocytogenes</i> (19118)	50-100	luxuriant	≥50%	bluish-green	+	-
<i>Listeria ivanovii</i> (19119) (00018*)	50-100	luxuriant	≥50%	bluish-green	-	+
<i>Listeria innocua</i> (33090) (00017*)	50-100	luxuriant	≥50%	bluish-green	+	-
<i>Escherichia coli</i> (25922) (00013*)	≥10 <sup>3</sup>	inhibited	0%			-
<i>Bacillus spizizenii</i> sub <i>spizizenii</i> (6633) (00003*)	≥10 <sup>3</sup>	inhibited	0%			-
<i>Pseudomonas aeruginosa</i> (27853) (00025*)	≥10 <sup>3</sup>	inhibited	0%			-
<i>Candida albicans</i> (10231) (00054*)	≥10 <sup>3</sup>	inhibited	0%			-

Key : + = positive reaction, - = negative reaction.

\* = corresponding WDCM Numbers



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