OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BRILLIANCE™ LISTERIA DIFFERENTIAL SUPPLEMENT (ISO) SR0258E

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Formula

Vial contents (each vial is sufficient for 500ml of medium)

L-α-phosphatidylinositol solution	15 ml

Description

A differential supplement for the detection, enumeration, and presumptive identification of *Listeria monocytogenes* and other *Listeria* species from food, animal feed and environmental samples according to ISO 11290-1:2017 and ISO 11290-2:2017 standards and other national reference methods using the Ottaviani & Agosti formulation.

Directions

Aseptically add 1 vial warmed to 48°C to 480ml of sterile Brilliance™ Listeria Agar base (ISO) (CM1212) prepared as directed, cooled to 48°C and add 1 vial of Brilliance™ Listeria Selective Supplement (SR0257E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Opaque, cream liquid
Sterility - passes test

Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar, Columbia Blood Agar Base enriched with 5% v/v horse blood or Sabouraud Dextrose Agar, where appropriate

Tested in Brilliance™ Listeria Agar Base (ISO) CM1212 and Brilliance™ Listeria Selective Supplement (ISO) SR0257

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is challenged with 30-120 colony-forming units

Listeria monocytogenes	NCTC11994	0.5-2mm blue-green colonies with halo
Listeria monocytogenes	ATCC®7644	0.5-2mm blue-green colonies with halo

A satisfactory result is represented by recovery of positive strains equal to or greater than 50% of the control medium.

Reactions after incubation at 37 ± 2°C for 48 ± 4 hours

Medium is challenged with 30-120 colony-forming units

Listeria monocytogenes	NCTC11994	1-3mm blue-green colonies with halo
Listeria monocytogenes	ATCC®7644	1-3mm blue-green colonies with halo
Listeria ivanovii	NCTC12701	0.5-3mm blue-green colonies with or without halo

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium. For *Listeria ivanovii* NCTC12701, a satisfactory result is represented by recovery equal to or greater than 50% of the control medium.

Medium is challenged with 1E+04 to 1E+05 colony-forming units

Bacillus cereus	ATCC®10876	No growth or 1-2mm cream/blue colonies
Staphylococcus aureus	ATCC®25923	No growth or 0.5-1mm yellow colonies
Saccharomyces cerevisiae	ATCC®9763	No growth or 1-2mm cream/blue colonies

Negative strains are inhibited or shall produce at least a 2 log(10) reduction when compared to the control medium.

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Proteus mirabilis	NCTC10975	No growth

Negative strains are inhibited.

Testing performed in accordance with ISO11133:2014

Table B.1
ISO Standard 11290-1:2017 tested in Brilliance™ Listeria Agar Base (ISO) CM1212 and Brilliance™ Listeria Selective Supplement (ISO) SR0257

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is challenged with 50-120 colony-forming units

Listeria monocytogenes	ATCC®13932	WDCM00021	0.5-2mm blue-green colonies with halo

A satisfactory result is represented by recovery of positive strains equal to or greater than 50% of the control medium.

Reactions after incubation at 37 ± 2°C for 48 ± 4 hours

Medium is challenged with 50-120 colony-forming units

Listeria monocytogenes	ATCC®13932	WDCM00021	1-3mm blue-green colonies with halo
Listeria monocytogenes	ATCC®35152	WDCM00109	1-3mm blue-green colonies with halo

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Medium is challenged with 1E+03 to 1E+04 colony-forming units

Listeria innocua	ATCC®33090	WDCM00017	0.5-3mm blue-green colonies without halo

A satisfactory result is represented by good growth with a negative diagnostic reaction

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Escherichia coli	ATCC®25922	WDCM00013	No growth
Escherichia coli	ATCC®8739	WDCM00012	No growth
Enterococcus faecalis	ATCC®29212	WDCM00087	No growth
Enterococcus faecalis	ATCC®19433	WDCM00009	No growth

Negative strains are inhibited.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
All	Creation of new MBD-BT-SPEC	New product SKU	N/A