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HALF FRASER SELECTIVE SUPPLEMENT

SR0166E

Formula

Vial contents (each vial is sufficient to supplement 225ml of medium)

Ammonium iron (III) citrate	112.50 mg
Nalidixic acid	2.25 mg
Acriflavine	2.8125 mg

Description

A selective supplement for the isolation of *Listeria* spp.

Directions

Aseptically add 4ml 1:1 ethanol:sterile distilled water to 1 vial and invert gently to dissolve. Aseptically add the vial contents to 225ml of sterile Fraser Broth Base (CM0895) prepared as directed and cooled to 50°C. Mix well and aseptically dispense into sterile containers.

Physical Characteristics

Orange/green pellet
Sterility - passes test

Microbiological Tests Using Optimum Inoculum Dilution


Control Media: Brilliance™ Listeria Agar (ISO), Tryptone Soya Agar or Columbia Blood Agar Base enriched with 5% v/v horse blood, where appropriate

Tested in Fraser Broth Base CM0895

Reactions after incubation at 30 ± 2°C for 24 ± 2 hours

Inoculate 10ml quantities of medium to achieve 1-10 colony-forming units/ml (cfu/ml) of *Listeria monocytogenes*. Incubate broths at 30 ± 2°C for 24 ± 2 hours. Subculture onto Brilliance™ Listeria Agar (ISO) (CM1212, SR0257 & SR0258) and incubate plates at 37 ± 2°C for 24 ± 2 hours.

Listeria monocytogenes ATCC®7644
Listeria monocytogenes ATCC®13932

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A satisfactory result is represented by recovery of positive strains equal to or greater than a 4 log(10) increase.

Positive strains shall produce aesculin hydrolysis after 24 hours.

Reactions after incubation at 30 ± 2°C for 24 ± 2 hours

Inoculate 10ml quantities of medium to achieve >1E+03 cfu/ml. Incubate broths at 30 ± 2°C for 24 ± 2 hours.

<i>Bacillus cereus</i>	ATCC®10876	No aesculin hydrolysis (no blackening)
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Negative strains are inhibited or shall produce a negative diagnostic reaction.


Productivity determined by qualitative testing in accordance with the methods and criteria described in ISO 11133:2014

Inoculation with mixed cultures

Inoculate 10ml quantities of medium to achieve 1-10 colony-forming units/ml (cfu/ml) of *Listeria monocytogenes*, to each add 1E+02 to 1E+03 cfu/ml of *Escherichia coli* and 1E+02 to 1E+03 cfu/ml of *Enterococcus faecalis*. Incubate broths at 30 ± 2°C for 25 ± 1 hour. Subculture onto Brilliance™ Listeria Agar (ISO) (CM1212, SR0257 & SR0258) and incubate plates at 37 ± 2°C for 24 ± 2 hours

Reactions after incubation at 30 ± 2°C for 25 ± 1 hour

<i>Listeria monocytogenes</i>	ATCC®13932	WDCM00021	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®8739	WDCM00012	No growth
+ <i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth
<i>Listeria monocytogenes</i>	ATCC®13932	WDCM00021	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®25922	WDCM00013	No growth
+ <i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth
<i>Listeria monocytogenes</i>	ATCC®13932	WDCM00021	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®8739	WDCM00012	No growth
+ <i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth

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<i>Listeria monocytogenes</i>	ATCC®13932	WDCM00021	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®25922	WDCM00013	No growth
+ <i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth

<i>Listeria monocytogenes</i>	ATCC®35152	WDCM00109	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®8739	WDCM00012	No growth
+ <i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth

<i>Listeria monocytogenes</i>	ATCC®35152	WDCM00109	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®25922	WDCM00013	No growth
+ <i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth

<i>Listeria monocytogenes</i>	ATCC®35152	WDCM00109	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®8739	WDCM00012	No growth
+ <i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth

<i>Listeria monocytogenes</i>	ATCC®35152	WDCM00109	0.5-1.0mm blue colonies with halo
+ <i>Escherichia coli</i>	ATCC®25922	WDCM00013	No growth
+ <i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth

A satisfactory result is represented by recovery of >10 cfu of *Listeria monocytogenes* on Brilliance™ Listeria Agar (ISO).

Selectivity determined by qualitative testing based on the methods described in ISO 11133:2014

Inoculation with pure cultures

Inoculate 10ml quantities of medium to achieve 1E+03 to 1E+04 colony-forming units/ml (cfu/ml) of *Escherichia coli* and *Enterococcus faecalis*. Incubate broths at 30 ± 2°C for 25 ± 1 hour. Subculture onto Brilliance™ Listeria Agar (ISO) (CM1212, SR0257 & SR0258) and Tryptone Soya Agar (CM0131) and incubate plates at 37 ± 2°C for 24 ± 2 hours.

Reactions after incubation at 30 ± 2°C for 25 ± 1 hour

<i>Escherichia coli</i>	ATCC®8739	WDCM00012	No growth (CM1212, SR0257 & SR0258) No growth or cream colonies (CM0131)
<i>Escherichia coli</i>	ATCC®25922	WDCM00013	No growth (CM1212, SR0257 & SR0258) No growth or cream colonies (CM0131)

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological characteristics	Change of Listeria plating medium	Change control	MOC-2023-0965