

CERTIFICATE OF ANALYSIS

PRODUCT SR0156E
FRASER SUPPLEMENT 1 X 10 VIALS

LOT NUMBER 6177509

EXPIRY DATE 2026.10.31

DATE OF MANUFACTURE 2024.09.24

Delivery/Customer information

Date Printed

2024.12.17

Delivery No.

Customer

Customer Order Number

Physical Characteristics	Results	Specification
Appearance	Orange/green pellet	Orange/green pellet

Microbiological Performance	Initial cfu/ml	Final cfu/ml	Log(10) Increase
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Tested with the addition of Fraser Supplement SR0156

Aerobic incubation at 37 ± 2°C for 24 ± 2 hours

<i>Listeria monocytogenes</i> ATCC®7644	8.0E+00	1.8E+07	6
<i>Listeria monocytogenes</i> ATCC®13932	7.0E+00	1.7E+07	6

Aerobic incubation at 37 ± 2°C for 48 ± 2 hours

	Initial cfu/ml	Test Result
<i>Bacillus cereus</i> ATCC®10876	1.9E+03	No aesculin hydrolysis (no blackening)

Testing has been performed in accordance with ISO11133:2014

Aerobic incubation at 37 ± 2°C for 24 ± 2 hours

Mixed cultures

Challenged with <1E+01 cfu/ml of *Listeria monocytogenes* and >1E+02 cfu/ml of *Escherichia coli* and *Enterococcus faecalis*.
A satisfactory result is represented by recovery of >10 cfu of *Listeria monocytogenes* on Brilliance Listeria Agar (ISO).
SR0257 and SR0258) using the diminishing sweep technique.

	Initial cfu/ml	Test Result
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	7.2E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	6.4E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.0E+02	No growth
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	7.2E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	3.2E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.0E+02	No growth
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	7.2E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	6.4E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.0E+02	No growth
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	7.2E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	3.2E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.0E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.4E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	6.4E+02	No growth

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+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.0E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.4E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	3.2E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.0E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.4E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	6.4E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.0E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.4E+00	Blue-green cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	3.2E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.0E+02	No growth

SR0257 and SR0258) using the diminishing sweep technique.

Pure cultures

Growth on Brilliance Listeria Agar (ISO)

A satisfactory result is represented by no growth of *Escherichia coli* and *Enterococcus faecalis*.

<i>E. coli</i> ATCC®8739 WDCM00012	7.0E+03	No growth
<i>E. coli</i> ATCC®25922 WDCM00013	3.1E+03	No growth
<i>E. faecalis</i> ATCC®19433 WDCM00009	1.8E+03	No growth
<i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+03	No growth

Growth on Tryptone Soya Agar

A satisfactory result is represented by less than 100 cfu of *Escherichia coli* and *Enterococcus faecalis*.

<i>E. coli</i> ATCC®8739 WDCM00012	7.0E+03	Cream cols
<i>E. coli</i> ATCC®25922 WDCM00013	3.1E+03	Cream cols
<i>E. faecalis</i> ATCC®19433 WDCM00009	1.8E+03	Straw cols
<i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+03	Straw cols

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

Positive strains shall produce aesculin hydrolysis after 48 hours. Negative strains shall produce no aesculin hydrolysis after 48 hours.

Refer to product specification for full details.

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Lot Accepted. 2024.10.21

This certificate is produced electronically and valid without a signature.

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