

CERTIFICATE OF ANALYSIS

PRODUCT DB0895V
HALF FRASER DRY-BAGS (w/o filter) 5x20L

LOT NUMBER 4509052

EXPIRY DATE 2027.05

DATE OF MANUFACTURE 2025.05

Delivery/Customer information

Date Printed

2025.10.08

Delivery No.

Customer

Customer Order Number

Physical Characteristics	Results	Specification
Appearance	Straw powder	Straw powder
Colour on reconstitution	Yellow	Yellow
pH (25°C)	7.2	7.0 - 7.4
Clarity	Clear	Clear
Packaging and Presentation	Conforms	Conforms to specification
Minimum irradiation dose in kGy	30	25 - 45
Maximum irradiation dose in kGy	40	25 - 45
Sterility @ 20-25°C & 30-35°C for 5 days	Satisfactory	Satisfactory

Microbiological Performance	Initial cfu/ml	Final cfu/ml	Log(10) Increase
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Listeria (Log) - subculturing**Micro. Characteristics 30 ± 2°C/24hrs****Aerobic incubation at 30 ± 2°C for 24 ± 2 hours**

<i>Listeria monocytogenes</i> ATCC®7644	7.1E+00	8.6E+07	7
<i>Listeria monocytogenes</i> ATCC®13932	5.1E+00	2.5E+07	7

Bacillus cereus (turbid)**Micro. Characteristics 30 ± 2°C/24 hrs**

	Initial cfu/ml	Test Result
<i>Bacillus cereus</i> ATCC®10876	3.4E+03	No aesculin hydrolysis (no blackening)

Testing has been performed in accordance with ISO11133:2014

Aerobic incubation at 30 ± 2°C for 25 ± 1 hour**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).**

	Initial cfu/ml	Test Result
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	5.1E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	4.3E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.8E+02	No growth
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	5.1E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	5.4E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.8E+02	No growth
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	5.1E+00	Blue cols with halo

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+ <i>E. coli</i> ATCC®8739 WDCM00012	4.3E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+02	No growth
<i>L. monocytogenes</i> ATCC®13932 WDCM00021	5.1E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	5.4E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.2E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	4.3E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.8E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.2E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	5.4E+02	No growth
+ <i>E. faecalis</i> ATCC®19433 WDCM00009	2.8E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.2E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®8739 WDCM00012	4.3E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+02	No growth
<i>L. monocytogenes</i> ATCC®35152 WDCM00109	4.2E+00	Blue cols with halo
+ <i>E. coli</i> ATCC®25922 WDCM00013	5.4E+02	No growth
+ <i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+02	No growth

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	5.4E+03	No growth
<i>E. coli</i> ATCC®25922 WDCM00013	4.3E+03	No growth
<i>E. faecalis</i> ATCC®19433 WDCM00009	2.8E+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	5.4E+03	Cream cols
<i>E. coli</i> ATCC®25922 WDCM00013	4.3E+03	Cream cols
<i>E. faecalis</i> ATCC®19433 WDCM00009	2.8E+03	Straw cols
<i>E. faecalis</i> ATCC®29212 WDCM00087	3.5E+03	Straw cols

Control Media: Brilliance® 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 24 hours. Negative strains are inhibited or shall produce a negative diagnostic reaction.

Refer to product specification for full details.

A satisfactory sterility test result is represented by no visible microbial growth after incubation for 5 days at 20-25°C and at 30-35°C. Small black particles and a white precipitate may be present in some bags - this does not affect the microbiological performance of the medium.

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Lot Accepted. 2025.10.08

This certificate is produced electronically and valid without a signature.

ATCC is a registered trade mark of the American Type Culture Collection.

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