

# Certificate of Analysis



**HALF FRASER (DEMI-FRASER) BROTH**  
**Catalogue No. FBH002/FBH005**

**Lot no.: 301637**  
**Exp. Date: NOV.19.2022**

**PHYSICAL CHARACTERISTICS**

<u>SPECIFICATION</u>		<u>EXPECTED RESULTS</u>	<u>ACTUAL RESULTS</u>
<u>Dehydrated:</u>	Appearance	Homogenous, free-flowing powder	Homogenous, free-flowing powder
	Color	Beige	Beige
<u>Prepared:</u>	Clarity	Clear	Clear
	Color	Yellow to Amber	Yellow to Amber
	Precipitate	None to Slight	None to Slight
<u>pH:</u>		7.2 ± 0.2 @ 25°C	7.1 @ 25°C

**CULTURAL RESPONSE – tested in compliance to ISO 11133:2014+A1:2018**

The medium was prepared according to label directions and 10mL volumes inoculated with the organisms listed below. Cultures were incubated at 30 ± 1°C under aerobic atmosphere and examined for growth at 22-26 hours. Following incubation, 10µL was subcultured onto TSA at 37 ± 1°C and examined for growth at 22-26 hours or onto Harlequin® Listeria Chromogenic Agar (HLCA)\* at 37 ± 1°C and plates examined for growth at 40-48 hours.

<u>MICROORGANISM</u>	<u>WDCM</u>	<u>APPROX. INOCULUM (CFU)</u>	<u>EXPECTED RESULTS</u>				<u>ACTUAL RESULTS</u>
			<u>Growth in HF</u>	<u>Reaction in HF*</u>	<u>Recovery on HLCA**</u>	<u>Recovery on TSA</u>	
Listeria monocytogenes + Escherichia coli + Enterococcus faecalis	00021	10 – 100	Growth	Black coloration	>10 cfu Blue colonies with opaque halo	Not applicable	Meets Expected Result
	00013	> 10 <sup>4</sup>					
	00087	> 10 <sup>4</sup>					
Listeria monocytogenes + Escherichia coli + Enterococcus faecalis	00109	10 – 100	Growth	Black coloration	>10 cfu Blue colonies with opaque halo	Not applicable	Meets Expected Result
	00012	> 10 <sup>4</sup>					
	00009	> 10 <sup>4</sup>					
<i>Escherichia coli</i>	00012	> 10 <sup>4</sup>	Inhibition	None	Not applicable	Total inhibition	Meets Expected Result
<i>Escherichia coli</i>	00013	> 10 <sup>4</sup>	Inhibition	None	Not applicable	Total inhibition	Meets Expected Result
<i>Enterococcus faecalis</i>	00009	> 10 <sup>4</sup>	Partial to Complete Inhibition	None	Not applicable	< 100 cfu	Meets Expected Result
<i>Enterococcus faecalis</i>	00087	> 10 <sup>4</sup>	Partial to Complete Inhibition	None	Not applicable	< 100 cfu	Meets Expected Result

\*according to Ottaviani and Agosti

# Certificate of Analysis



**HALF FRASER (DEMI-FRASER) BROTH**  
**Catalogue No. FBH002/FBH005**

**Lot No: 301637**  
**Exp. Date: NOV.19.2022**

## ANIMAL DERIVED MATERIAL COUNTRY OF ORIGIN INFORMATION

<u>ANIMAL DERIVED MATERIAL</u>	<u>TISSUE SOURCE/ RISK CATEGORY*</u>	<u>ANIMAL SPECIES</u>	<u>COUNTRY OF ORIGIN</u>	<u>CERTIFICATE OF SUITABILITY</u>
Animal Tissue	Lung / B*	Bovine	<i>New Zealand</i>	<i>N/A</i>
Casein	Milk/ B*	Bovine	<i>New Zealand</i>	<i>N/A</i>
Enzyme	Pancreas/ NA**	Porcine	<i>United States</i>	<i>N/A</i>
Beef Extract	Skeletal Muscle/Bone/ B*	Bovine	<i>New Zealand</i>	<i>R1-CEP 2001-299</i>

\* Risk Categories as defined by the European Pharmacopeia.

\*\* Not Applicable. "Non-TSE-relevant animal species."

Product was tested in compliance to the regulation noted above. Variances in data may occur. External factors such as adverse storage conditions or contamination of product may cause loss in performance. Solus Scientific Solutions Ltd certifies that this lot met all quality control specifications for this product.

Gillian Bradley, Quality Manager

Date: Monday, December 14, 2020