

Certificate of Analysis



FRASER BROTH
Catalog No. FB001

Lot No: 209925
Exp. Date: JAN.14.2022

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	Yellow
	Precipitate	None to Slight	None to Slight
<u>pH:</u>		7.2 ± 0.2 @ 25°C	7.2 @ 25°C

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

(Fertility and Selectivity Testing)

The medium was prepared according to label directions and 10mL volumes inoculated with the organisms listed below. Cultures were incubated aerobically at 37 ± 1°C and examined for growth at 22-26 hours. Following incubation, 10µL of *E. faecalis* and *E. coli* cultures were subcultured onto TSA at 37 ± 1°C and examined for growth at 22-26 hours

<u>MICROORGANISM</u>	<u>ATCC</u>	<u>APPROX. INOCULUM (CFU)</u>	<u>EXPECTED RESULTS</u>			<u>ACTUAL RESULTS</u>		
			<u>Growth in FB</u>	<u>Reaction in FB</u>	<u>Recovery on TSA</u>	<u>Growth in FB</u>	<u>Reaction in FB</u>	<u>Recovery on TSA</u>
<i>Enterococcus faecalis</i>	19433	> 10 ³	Partial to Complete Inhibition	–	< 100 cfu	Meets Expected Result		
<i>Enterococcus faecalis</i>	29212	> 10 ³	Partial to Complete Inhibition	–	< 100 cfu	Meets Expected Result		
<i>Escherichia coli</i>	25922	> 10 ³	Complete Inhibition	–	< 10 cfu	Meets Expected Result		
<i>Escherichia coli</i>	8739	> 10 ³	Complete Inhibition	–	< 10 cfu	Meets Expected Result		
<i>Listeria innocua</i>	33090	> 10 ³	Growth	Blackening	NA	Meets Expected Result		
<i>Listeria monocytogenes</i>	35152	10-100	Growth	Blackening	NA	Meets Expected Result		
<i>Listeria monocytogenes</i>	13932	10-100	Growth	Blackening	NA	Meets Expected Result		
<i>Staphylococcus aureus</i>	25923	> 10 ⁴	Partial to complete inhibition	–	NA	Meets Expected Result		

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(Productivity Testing)

The medium was prepared according to label directions and 10mL volumes inoculated as a mixed culture using the organisms listed below. Cultures were incubated aerobically at $37 \pm 1^\circ\text{C}$, examined for growth at 22-26 hours. and subcultured onto Listeria Chromogenic Agar* at $37 \pm 1^\circ\text{C}$ and plates examined for growth at 22-50 hours

<u>Mixed Culture Testing</u>	<u>ATCC</u>	<u>APPROX. INOCULUM (CFU)</u>	<u>EXPECTED RESULTS</u>		<u>ACTUAL RESULTS</u>	
			<u>Recovery on Listeria Agar*</u>	<u>Reaction on Listeria Agar*</u>	<u>Recovery on Listeria Agar*</u>	<u>Reaction on Listeria Agar*</u>
<i>Enterococcus faecalis</i> +	29212	$> 10^3$	Inhibited	—	Meets Expected Result	
<i>Escherichia coli</i> +	25922	$>10^3$	Inhibited	—	Meets Expected Result	
<i>Listeria monocytogenes</i>	35152	10-100	>10 cfu	Blue colonies with opaque halo	Meets Expected Result	
<i>Enterococcus faecalis</i> +	19433	$> 10^3$	Inhibited	—	Meets Expected Result	
<i>Escherichia coli</i> +	8739	$>10^3$	Inhibited	—	Meets Expected Result	
<i>Listeria monocytogenes</i>	13932	10-100	>10 cfu	Blue colonies with opaque halo	Meets Expected Result	

*according to Ottaviani and Agosti

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. Where a regulation is not referenced, Neogen Corporation standard test methods were observed. Variances in data may occur. External factors such as adverse storage conditions or contamination of product may cause loss in performance. Neogen Corporation certifies that this lot met all quality control specifications for this product.

Gillian Bradley, Quality Manager

Date: Thursday, February 06, 2020

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