Certificate of Analysis

PerkinElmer
For the Better

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

Lot no.: US112505
Exp. Date: FEB.28.2022

PHYSICAL CHARACTERISTICS

SPECIFICATION		EXPECTED RESULTS	ACTUAL RESULTS
Dehydrated:	Appearance	Homogenous, free-flowing powder	Homogenous, free-flowing powder
	Color	Beige	Beige
Prepared:	Clarity	Clear	Clear
	Color	Yellow	Yellow
	Precipitate	None to Slight	None to Slight
pH:		7.2 ± 0.2 @ 25°C	7.16 @ 25°C

CULTURAL RESPONSE – tested in compliance to ISO 11133:2014 (Fertility and Selectivity Testing)

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 of *E. faecalis* and *E. coli* cultures were subcultured onto TSA at 37 ± 1°C and examined for growth at 22-26 hours.

MICROORGANISM	ATCC	APPROX. INOCULUM (CFU)	EXPECTED RESULTS			ACTUAL RESULTS		
			Growth in HF	Reaction in HF	Recovery on TSA	Growth in HF	Reaction in HF	Recovery on TSA
Enterococcus faecalis	29212	> 10^3	Partial to Complete Inhibition		< 100 cfu	Meets Expected Result		
Enterococcus faecalis	19433	> 10^3	Partial to Complete Inhibition		< 100 cfu	Meets Expected Result		
Escherichia coli	25922	> 10^3	Inhibition		< 10 cfu	Meets Expected Result		
Escherichia coli	8739	> 10^3	Inhibition		< 10 cfu	Meets Expected Result		
Listeria innocua	33090	10-100	Growth	Blackening	NA	Meets Expected Result		
Listeria monocytogenes	35152	10-100	Growth	Blackening	NA	Meets Expected Result		
Listeria monocytogenes	13932	10-100	Growth	Blackening	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 at 30 ± 1°C under aerobic atmosphere for 22-26 hours followed by subculture onto Listeria Agar* at 37 ± 1°C and plates examined for growth at 40-48 hours.

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

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

* 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, 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. Solus Scientific certifies that this lot met all quality control specifications for this product.

Gillian Bradley – Quality Manager

Date: Friday, April 10, 2020

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