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BUFFERED PEPTONE WATER (ISO) CM1049		

BUFFERED PEPTONE WATER (ISO)

CM1049

Typical Formula*

Peptone	grams per litre	10.0
Sodium chloride		5.0
Disodium hydrogen phosphate (anhydrous)		3.5
Potassium dihydrogen phosphate		1.5

* adjusted as required to meet performance standards

Directions

Dissolve 20g in 1 litre of distilled water. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Light straw to straw, free-flowing powder
 Colour on reconstitution - straw 1 to straw 2
 Moisture level - less than or equal to 7%
 pH - 7.0 ± 0.2 at 25°C
 Clarity - clear
 Buffering capacity test - passes test

Microbiological Tests Using Optimum Inoculum Dilution

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


Inoculate 9ml of the medium with 1ml of the test organism containing more than or equal to 5E+04 cfu/ml. At time zero (0 minutes) and after holding at 20-25°C for 45minutes to 1 hour (for *Escherichia coli* and *Staphylococcus aureus*) or 18-22°C for 1 hour ± 5 minutes (for *Listeria monocytogenes*), subculture onto control medium.

Reactions after incubation at 37 ± 2°C for 18 ± 2 hours

Tested as a non-selective pre-enrichment broth

Medium is challenged with 10-100 colony forming units.

<i>Salmonella nottingham</i>	NCTC7832	Turbid growth
<i>Salmonella poona</i>	NCTC4840	Turbid growth

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Escherichia coli ATCC®11775 Turbid growth

A satisfactory result is represented by visible growth

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 37 ± 2°C for 18 ± 2 hours

Tested as a non-selective pre-enrichment broth

Medium is challenged with 10-100 colony forming units.

<i>Salmonella typhimurium</i>	ATCC®14028	WDCM00031	Turbid growth
<i>Salmonella enteritidis</i>	ATCC®13076	WDCM00030	Turbid growth
<i>Escherichia coli</i>	ATCC®25922	WDCM00013	Turbid growth
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	Turbid growth

A satisfactory result is represented by visible growth


Reactions after incubation at 37 ± 2°C for 18 ± 2 hours

Tested as a diluent

Medium is challenged with 50-150 colony forming units

<i>Escherichia coli</i>	ATCC®8739	WDCM00012	1-2mm white/grey colonies
<i>Escherichia coli</i>	ATCC®25922	WDCM00013	1-2mm white/grey colonies
<i>Staphylococcus aureus</i>	ATCC®25923	WDCM00034	0.5-1mm white/grey colonies
<i>Listeria monocytogenes</i>	ATCC®35152	WDCM00109	1-2mm white/grey colonies
<i>Listeria monocytogenes</i>	ATCC®13932	WDCM00021	1-2mm white/grey colonies

A satisfactory result is represented by recovery of ± 30% of the Control cfu (0 minutes) after holding at 20-25°C for 45 minutes (*Escherichia coli* and *Staphylococcus aureus*) or 18-22°C for 1 hour (*Listeria monocytogenes*).

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Testing performed in accordance with ISO22964:2017

Reactions after incubation at 36 ± 2°C for 18 ± 2 hours

Medium is challenged with 10-100 colony forming units

<i>Cronobacter sakazakii</i>	ATCC®29544	WDCM 00214	Turbid growth
<i>Cronobacter muytjensii</i>	ATCC®51329	WDCM 00213	Turbid growth

A satisfactory result is represented by visible growth from an inoculum of 10-100 colony forming units.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Minor changes to update document to current format	Change control	MOC-2023-1029
Typical formula	Change of name		
Physical characteristics	Change of colour		