

Antibiotic Assay Media

APPLICATION	Antibiotic Assay Media are used for determining antibiotic potency by the microbiological assay technique according to the European Pharmacopoeia (EP) and/or the United States Pharmacopoeia (USP). The activity (potency) of an antibiotic can be demonstrated under suitable conditions by its inhibitory effect on microorganisms. Antibiotic assays are performed by the cylinder plate method and the turbidimetric assay.
PRINCIPLE AND INTERPRETATION	Peptones, Yeast extract, Beef extract, Meat extract provide nitrogen, vitamins, minerals, and amino acids essential for growth. Dextrose provides the energy source. Phosphates in the medium enhance buffering action and sodium chloride maintains the osmotic equilibrium of the medium. Dextrose is the fermentable carbohydrate providing carbon and energy. Agar is the solidifying agent.
STORAGE	+2/+25°C Protect from light, excessive heat, moisture and freezing
STERILIZATION	Autoclaved
QUALITY CONTROL	Sterility control: no growth
GENERAL WARNING NOTES	Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use. Disposal of waste must be carried out according to national and local regulations in force.

Antibiotic Assay Media

MEDIA COMPOSITION	ANTIBIOTIC ASSAY MEDIA															
	Additive (g/L)	A ^{1,2}	C	B	E ⁴	F ³	G	H	3	4	8	9	10	11	35	36
	Peptone	6.0	--	6.0	5.0	9.4	10	5.0	--	6.0	6.0	--	--	6.0	10	--
	Glycerol	--	--	--	--	--	10	--	--	--	--	--	--	--	10	--
	Casein peptone	4.0	6.0	4.0	--	--	--	--	5.0	--	--	17	17	4.0	--	15
	Soy peptone	--	--	--	--	--	--	--	--	--	--	3.0	3.0	--	--	5.0
	Yeast extract	3.0	3.0	3.0	--	4.7	--	--	1.5	3.0	3.0	--	--	3.0	--	--
	Beef extract	1.5	1.5	1.5	--	2.4	--	3.0	1.5	1.5	1.5	--	--	1.5	10	--
	Meat extract	--	--	--	3.0	--	10	--	--	--	--	--	--	--	--	--
	Dextrose	1.0	1.0	1.0	--	10	--	--	1.0	1.0	--	2.5	2.5	1.0	--	--
	Sodium chloride	--	3.5	--	--	10	3.0	--	3.5	--	--	5.0	5.0	--	3.0	5.0
	Dipotassium hydrogen phosphahate	--	3.68	--	--	--	--	--	3.68	--	--	2.5	2.5	--	--	--
	Potassium dihydrogen phosphahate	--	1.32	--	--	--	--	--	1.32	--	--	--	--	--	--	--
	Disodium hydrogen phosphate	--	--	--	10.8 ⁵	--	--	--	--	--	--	--	--	--	--	--
	Tween 80 (%)	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
	Agar	15	--	15	10	23.5	15	15	--	15	15	20	12	15	--	15
	pH *	6.6 ¹²	7.3	7.3	7.9	6.1	7.0	7.9	7.0	6.6	5.9	7.2	7.2	8.3	7.0	7.3
	Rif Code	004.1	004.D	004.5	004.E	004.6	004.7	004.9	004.F	004.C	004.8	004.G	004.A	004.B	004.H	004.I

¹ Medium A pH 6.6 (EP) is also identified as Medium 1 (USP);
² Medium A can be produced with the same formula but with the different pH according to EP;
³ Medium F pH 6.1 (EP) is also identified as Medium 19 (USP);
⁴ Medium E is supplied with *Medium E Additive buffer10x* (Dibasic sodium phosphate 10x);
⁵ Equivalent to 26.9 g Disodium hydrogen phosphate, 12H₂O

* Adjusted and /or supplemented as required to meet performance criteria

Antibiotic Assay Media

This item is available in:

➤ Sterile bottled MEDIUM A

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.1/31PSC28.200 (pH 6.6)	004.1/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year
200ml	004.2/31PSC28.200 (pH 7.0)	004.2/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year
200ml	004.3/31PSC28.200 (pH 7.9)	004.3/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year
200ml	004.4/31PSC28.200 (pH 8.0)	004.4/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM B

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.5/31PSC28.200 (pH 7.3)	004.5/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM F

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.6/31PSC28.200 (pH 6.1)	004.6/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM G

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.7/31PSC28.200 (pH 7.0)	004.7/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ bottled MEDIUM 8

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.8/31PSC28.200 (pH 5.9)	004.8/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

Antibiotic Assay Media

➤ Sterile bottled MEDIUM H

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.9/31PSC28.200 (pH 7.9)	004.9/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM 10

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.A/31PSC28.200 (pH 7.2)	004.A/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM 11

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.B/31PSC28.200 (pH 8.3)	004.B/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM 4

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.C/31PSC28.200 (pH 6.6)	004.C/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM C

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.D/31PSC28.200 (pH 7.0)	004.D/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM E

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.E/31PSC28.200 (pH 7.9)	004.E/31PSC28.200.10 (9+1 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year
200ml	004.EB/31PSC28.200 (additive buffer for Medium E)	004.EB/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

Antibiotic Assay Media

➤ Sterile bottled MEDIUM 3

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.F/31PSC28.200 (pH 7.0)	004.F/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM 9

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.G/31PSC28.200 (pH 7.2)	004.G/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM 35

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.H/31PSC28.200 (pH 7.0)	004.H/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled MEDIUM 36

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	004.I/31PSC28.200 (pH 7.3)	004.I/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28 Screw cap bottle	1 year

Customized filling volumes and formulations are available upon request

To receive information please

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