

VP (Voges-Proskauer) Semi-Solid



Medium used for the gram-negative bacteria differentiation.

* Equally use with MFDS (MB-V1180K) and QIA (MB-V1180Q).

• CONTENTS (Liter)

Yeast Extract	1.0 g
Casein Peptone	7.0 g
Soy Peptone	5.0 g
Dextrose	10.0 g
Sodium Chloride	5.0 g
Agar	3.0 g
Final pH = 7.1 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 31.0 G of powder to 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in tubes.

• INTERPRETATION

VP (Voges-Proskauer) Semi-Solid is a medium used for the gram-negative bacteria differentiation. The VP Test EP (MB-80281) differentiates microorganisms which ferment carbohydrates to acids from those that ferment them by decarboxylation to acetylmethylcarbinol, which is oxidised to diacetyl by atmospheric oxygen in an environment made basic by KOH. Directly, under the catalytic action of α - naphthol and creatine, is converted into a red complex. Yeast extract, casein peptone, soy peptone and dextrose provide nitrogen, carbon, vitamins and minerals for growth of microorganisms. Sodium chloride maintains the osmotic balance. Agar is solidifying agent.

• TECHNIC

Inoculate the tube to stab the middle of the medium using a sterile needle. Incubate at 36 ± 1°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

VP Test EP (MB-80281)

Add 3 drops of α -naphthol reagent and 2 drops of 40% KOH reagent to semi-solid culture. A positive test is indicated by the development of a pink to bright red coloration 15 minutes after the addition of reagents.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: very light beige to light beige.

Prepared medium

Appearance: clear with no precipitate.

Color: light amber.

Incubation conditions: 36 ± 1 °C / 24 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	VP Test
<i>Enterobacter aerogenes</i>	13048	50-100	good	eosin pink or red within 2-5 minutes
<i>Klebsiella pneumoniae</i>	27736	50-100	good	eosin pink or red within 2-5 minutes
<i>Escherichia coli</i>	25922	50-100	good	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Barn, M.M. (1986). J. Pathot. Bacteriol. , 42 : 441.
2. Edwards, P.R., and V.H. Ewing (1965). Identification of Enterobacteriaceae.
3. ISO 6785: 2001. IDF 93: 2001. Milk and milk products- Detection of Salmonella spp..
4. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-V1180 VP (Voges-Proskauer) Semi-Solid	500 G
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