

GSP Agar



Medium used for the isolation and cultivation of Pseudomonas and Aeromonas.

• CONTENTS (Liter)

Sodium L-Glutamate	10.0 g
Starch, Soluble	20.0 g
Potassium Dihydrogen Phosphate	2.0 g
Magnesium Sulfate	0.5 g
Phenol Red	0.36 g
Agar	12.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 44.86 G of powder in 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. Aseptically add 1 vial of GSP Selective supplement (MB-G2522). Mix well. Pour into petri dishes.

GSP Selective supplement

1 vial contents (each vial is sufficient for 500mL of medium)

Penicillin	0.07 g
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• INTERPRETATION

GSP Agar is a medium used for the isolation and cultivation of Pseudomonas and Aeromonas. Sodium L-glutamate provides essential nutrients. Starch is a carbon source. Potassium dihydrogen phosphate is a buffering agent. Magnesium sulfate provides essential ions. Phenol red serves as a pH indicator. Agar is the solidifying agent. GSP Selective supplement suppresses the growth of microorganisms except Pseudomonas and Aeromonas.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 25 ± 1°C for 24 - 72 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: pinkish red

Prepared medium

Appearance : clear to slightly opalescent

Color: red

Incubation conditions: 25 ± 1°C / 24 - 72 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Aeromonas hydrophilia</i>	7966	50-100	good	yellow
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	red
<i>Escherichia coli</i>	25922	≥10 ³	inhibited	-
<i>Staphylococcus aureus</i>	25923	≥10 ³	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 are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. KIELWEIN, G., GERLACH, R., u. JOHNE, H.: Untersuchungen über das Vorkommen von *Aeromonas hydrophilain* Rohmilch. -Arch. F. Lebensmittelhyg., 20; 34-38 (1969).
2. KIELWEIN, G.: Ein Nährboden zur selektiven Züchtung von *Pseudomonaden* und *Aeromonaden*. - Arch. f. Lebensmittelhyg., 20; 131-133 (1969).
3. KIELWEIN, G.: *Pseudomonaden* und *Aromonaden* in Trinkmilch: Ihr Nachweis und ihre Bewertung. - Arch. f. Lebensmittelhyg., 22; 15-19 (1971).
4. KIELWEIN, G.: die Isolierung und Differenzierung von *Pseudomonaden* aus Lebensmitteln. - Arch. f. Lebensmittelhyg., 22; 29-37 (1971).
5. STANIER, R.Y., PALLERONI, N.J., a. DOUDOROFF, M.: The aerobic *Pseudomonas*- a taxonomic study. - J. Gen. Microbiol., 42; 159-271 (1966).

• PACKAGE

Cat. No : MB-G2172 GSP Agar	500 G
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