

MM0264

GSP agar

Use and description:

For the selective isolation and cultivation of *Pseudomonas* species. This medium contains starch and Na-glutamate as nutrients. *Aeromonas* spp. utilise starch, this cause acidic pH, remarkable through yellow-coloured medium. *Pseudomonas* stay red-violet.

Composition per liter:

Starch	20.00 g
Phenol red	0.36 g
Sodium-L(+)-glutamate	0.00 g
K ₂ PO ₄	2.00 g
MgSO ₄	0.50 g
Agar	15.00 g

Final pH of the ready to use medium: 7.2 ± 0.2

Medium preparation:

Add 48 grams of dehydrated culture medium to 1 liter of distilled water. Mix thoroughly and dispense into tubes or flasks. Sterilise by autoclaving at 121 °C for 15 minutes. Add 100.000 IU/l Penicillin G as selective supplement.

Quality specification:

Dehydrated medium: homogeneous, pinkish-coloured, fine powder.

Ready to use medium: clear, red agar

Microbiological response:

Organisms	Result
E.coli ATCC 25923	markedly inhibited
<i>Pseudomonas aeruginosa</i> ATCC 27853	growth, red violet colonies

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or the color has changed from the original.