

9: VY/2 AGAR

Final pH: 7.2

Main sol. 9

Baker's yeast	5.00	g
CaCl ₂ x 2 H ₂ O	1.36	g
Vitamin B ₁₂	0.50	mg
Agar (Difco)	15.00	g
Distilled water	1000.00	ml
KOH, required for pH adjustment		

Sterilize vitamin B₁₂ separately by filtration. Prepare and store yeast cells as autoclaved stock suspension (5 g baker's yeast/100 ml distilled water, adjust pH to 6.5 and autoclave). Adjust pH of medium to 7.2 with KOH before, and after autoclaving and cooling to 50°C (use pH-indicator paper).

Cultures of myxobacteria delivered freeze-dried

<i>Main sol. 1118</i>	1	ml
Freeze dried material		

Please see our video tutorial and follow the special instructions: 'Reactivation of Myxobacteria' given with the strain entry of our catalogue. For suspending the freeze-dried cells from ampoules, add about 0.5 - 1.0 ml medium MD1 (per liter: casitone 3.0 g; calciumchloride dihydrate 0.7 g; magnesiumsulphate heptahydrate 2.0 g) to the vial with freeze dried material.

Cultures of myxobacteria delivered as active cultures

Cultures of myxobacteria delivered as active cultures (growing on agar plates): Always use the rim of the swarm as inoculum for fresh media. If the swarms are creamy, transfer high amounts of cell mass to several spots on fresh VY/2 agar medium. If the swarm adheres to the agar or grows within the agar, cut small agar cubes from the rim of the swarm and place onto a fresh agar plate using an appropriate tool such as a lancet. Make sure that the pieces of swarm colonies grown on the agar are transferred to the agar plate. Attempt to place the inoculum in such a way that the swarms are in contact with the fresh agar plate.

Incubate for up to 3 weeks (in particular Sorangium and Nannocystis strains) at the temperature given for the strain, taking measures against desiccation. If there is no growth after ten days, carefully split up the agar-culture-cubes and squeeze the material to the agar plate and reincubate.

Main sol. 1118 (from medium 1118)

Casitone	3.0	g
CaCl ₂ x 2 H ₂ O	0.7	g
MgSO ₄ x 7 H ₂ O	2.0	g
<i>Trace element solution SL-4</i>	1.0	ml
Distilled water	1000.0	ml

After autoclaving and cooling, add 0.5 mg /l vitamin B₁₂ from a filter sterilized stock solution. pH should be 7.0 -7.2.

SL107: Trace element solution SL-4 (from medium 1118)

EDTA	0.500	g
FeSO ₄ x 7 H ₂ O	0.200	g
ZnSO ₄ x 7 H ₂ O	0.010	g
MnCl ₂ x 4 H ₂ O	0.003	g
H ₃ BO ₃	0.030	g
CoCl ₂ x 6 H ₂ O	0.020	g
CuCl ₂ x 2 H ₂ O	0.001	g
NiCl ₂ x 6 H ₂ O	0.002	g
Na ₂ MoO ₄ x 2 H ₂ O	0.003	g
Distilled water	1000.000	ml

For DSM 11116 reduce amount of vitamin B₁₂ to 0.05 mg/l.