

MDY-V (Modified DY-V Medium)

Stock solutions in g / 1000 ml water	for 1 litre final medium
(1) 50 g MgSO ₄ ·7H ₂ O	1.0 ml
(2) 3.0 g KCl	1.0 ml
(3) 2.68 g NH ₄ Cl	1.0 ml
(4) 20.0 g NaNO ₃	1.0 ml
(5) 2.16 g Na ₂ -β-glycerophosphate	1.0 ml
(6) 0.8 g H ₃ BO ₃	1.0 ml
(7) 75.0 g CaCl ₂	1.0 ml
(8) MES	200.0 mg
(9) trace element solution (see below)	6.0 ml
(10) vitamin B ₁ (see below)	1.0 ml
(11) vitamin B ₁₂ (see below)	1.0 ml

Make up to 1 litre with distilled water. Adjust pH to 6.8 with NaOH, then autoclave at 15 psi for 15 minutes. For agar add 15 g per litre Bacterial Agar.

Trace element solution (9)

Add to 1000 ml of distilled water 0.75 g Na₂EDTA and the minerals in exactly the following sequence:

FeCl ₃ ·6H ₂ O	97.0 mg
MnCl ₂ ·4H ₂ O	41.0 mg
ZnCl ₂	5.0 mg
CoCl ₂ ·6H ₂ O	2.0 mg
Na ₂ MoO ₄ ·2H ₂ O	4.0 mg

Vitamin B₁ (10)

0.12 g Thiaminhydrochloride in 100 ml distilled water. Filter sterile.

Vitamin B₁₂ (11)

0.1 g Cyanocobalamin in 100 ml distilled water, take 1 ml of this solution and add 99 ml distilled water. Filter sterile.