

1266a. MEDIUM GY VL55**Solution 1:**

MES (2-Morpholinoethanesulfonic acid)	1.95	g
20 mM MgSO ₄ x 7 H ₂ O	10.00	ml
30 mM CaCl ₂ x 2 H ₂ O	10.00	ml
20 mM (NH ₄) ₂ HPO ₄	10.00	ml
Selenite-tungstate solution (see below)	1.00	ml
Trace element solution SL10 (see below)	1.00	ml
Distilled water	460.00	ml

Adjust to pH 5.5 with NaOH/KOH solution (see below).

Solution 2:

Glucose	1.00	g
Yeast extract	0.50	g
Distilled water	500.00	ml

For solid media add:

Agar	20.00	g
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After autoclaving, cool to 50-60°C and combine the solution by pouring solution 2 to solution 1.

Stocks for the media:

20 mM MgSO₄ x 7 H₂O:

H ₂ O	100.00	ml
MgSO ₄ x 7 H ₂ O	0.49	g

30 mM CaCl₂ x 2 H₂O:

H ₂ O	100.00	ml
CaCl ₂ x 2 H ₂ O	0.44	g

20 mM (NH₄)₂HPO₄:

H ₂ O	100.00	ml
(NH ₄) ₂ HPO ₄	0.26	g

NaOH/KOH:

H ₂ O	100.00	ml
NaOH	0.80	g
KOH	0.56	g

Selenite-tungstate solution:

NaOH	0.500	g
Na ₂ SeO ₃ x 5 H ₂ O	0.003	g
Na ₂ WO ₄ x 2 H ₂ O	0.004	g
Distilled water	1000.000	ml

Trace element solution SL-10:

HCl (25%; 7.7 M)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl₂ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml.