Rice Half-MS medium

Chemicals	Stock Conc.	Addition	Final Conc.	Location
MS basal salt (M407)	—	1.22 g	0.5X	4°C (c)
Ammonium nitrate (NH_4NO_3)	—	3.30 g	10.31 mM	VIII
Potassium nitrate (KNO_3)	—	3.80 g	9.40 mM	toxic (D)
Potassium phosphate monobasic (KH_2PO_4)	170 g / L	2 mL	0.63 mM	bench
MES hydrate	—	2 g	0.05% (w/v)	III
PPM™	100%	2 mL	0.05% (v/v)	4°C (a)
KOH ※	5 M	~ 730 µL	—	VII
ddH_2O	—	~ 4 L	—	—
Total volume		**4 L**		

Gelling agent ⟶ Gelzan™ (G3251, CAS no.: 71010-52-1) : 1.5 g / L (0.15%). Located between **I** and **II**.
Generally, we make 400 mL per bottle, so weigh **(600 ± 2) mg / 400 mL** for each bottle.

The final pH should be around **5.7 ~ 5.8**. Autoclave under **121°C** for **20 mins**.

※ KOH is used for pH adjustment. To prepare 5 M KOH solution, dissolve 330 g of 85% KOH in 900 mL ddH_2O, and then bring to 1 L.
Since KOH releases heat during dissolution, **gradually and slowly add the KOH granules into the water**.