

Stock Solution



TD-S Revision 2.0

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100mM CaK₂-EGTA Stock Solution, pH 7.0 - 100 ml

Instructions

1. Weigh 1.00 g of CaCO₃ (CAS 471-34-1, mw. = 100.09).
2. Weigh 3.80 g EGTA ([EGTA, GoldBio Catalog # E-217](#) [CAS 67-42-5, mw. = 380.35]).
3. Weigh 0.238 g HEPES free acid ([HEPES, Free Acid, GoldBio Catalog # H-400](#) [CAS 7365-45-9, mw. = 238.30]).
4. Suspend reagents in 50 ml dH₂O.
5. Add 20 ml of 1M KOH.
6. Heat to 70°C with stirring to dissolve calcium carbonate. This can take several minutes.
7. Cool to room temperature and adjust to the desired pH with 1M KOH.
8. Fill to final volume of 100 ml.
9. Store at 4°C.

Note: CaK₂-EGTA is used in biopsy preservation solution, for the preparation and permeabilization of muscle fiber. Final concentration is 100mM CaK₂EGTA and 10mM HEPES.