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GUV preparation

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Protocol status: Working

We use this protocol and it's working



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Abstract

GUV preparation for membrane tube assay application

1 **GUV Preparation**

- 1.1 Clean the coverglass.
- 1.2 Coat cleaned coverslips with 100 μ L 5% (w/w) polyvinyl alcohol (PVA) with a molecular weight of 145,000 (Millipore).
- 1.3 Place the coated coverslip in a heating incubator at 60 °C to dry the PVA film for 30 min.
- 1.4 Spread a lipid mixture with a molar composition of 70% DOPC, 20% DOPE, 5% DO-PI(3)P, 5% DOPS, 0.3% Atto647N DOPE, 0.01% PEG2000-biotin-DSPE at 1 mg/ml uniformly onto the PVA film.
- 1.5 Put the lipid-coated coverslip under vacuum overnight to evaporate the solvent.
- 1.6 Use 100 μ L 320 mOsm sucrose solution for swelling for 1 h at room temperature
- 1.7 Harvest the GUVs and use them with 12 h.