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Preparation of primary chicken embryo liver (CEL) cells

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MATERIALS

NAME	CATALOG #	VENDOR
Dulbecco's Modified Eagle's Medium (DMEM)	D5796	Sigma Aldrich
Fetal Bovine Serum	10270106	Gibco - Thermo Fischer
Gibco Penicillin-Streptomycin (10,000 U/mL) (Pen/Strep)	15-140-122	Fisher Scientific
0.1M Phosphate Buffered Saline pH 7.4		
Trypsin-EDTA (0.25%), phenol red	25200056	Thermo Fisher

MATERIALS TEXT

Primary CEL cell was obtained from liver embryos of 13 to 15 days old SPF embryonated chicken eggs. Liver was harvested aseptically using sterile forceps and washed twice with sterile phosphate buffered saline (PBS, pH 7.4, 0.1M). The liver tissue was minced and trypsinized gently with 0.25% Trypsin-EDTA solution for 10 minutes. The suspension was passed through muslin cloth and centrifuged at 96 x *g* for 5 minutes to obtain cell pellet. Trypsin was discarded and cell pellet was resuspended with fresh Dulbecco's Modification Eagle Medium (DMEM), enriched with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin antibiotic. Cell concentration was counted and adjusted to 5 x 10⁶ cells/mL. The cell suspension (5mL) was seeded into new 25cm² cell culture flasks and was kept under controlled atmosphere at 5% CO₂ incubator with 85%-90% humidity until confluent monolayer formed [Soumyalekshmi et al., 2014].



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