

SV-80 | 300345

Karyotype 2n = 76, 2n = 52 + 87

SV-80

Culture Medium DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM β-mercaptoethanol (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 20 - 24 hours

Subculturing Seed cells into 25 cm² flasks (T25) or 75 cm² flasks (F75) in 10% FBS medium. Split ratio 1:3 to 1:5.

Fluid renewal 1 - 2 times per week

Post-Thaw Recovery 1 - 2 weeks

Freeze medium DMEM + 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in pre-warmed medium.
3. Seed the cells into a pre-warmed flask containing 15 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂.
4. After 24 hours, check the cell density. If the density is below 70%, add fresh medium.
5. Pass the cells into a new flask when they reach confluence.
6. Harvest the cells by trypsinization. Seed into a new flask with 10 mL of fresh medium.
7. Continue to passage the cells every 2-3 days.
8. Store the cells in liquid nitrogen for long-term storage.

Incubation Atmosphere

37°C, 5% CO₂, humidified air

Flask Coating

Flask coating is not required for this cell line.

Freezing Procedure

Freeze the cells in a freezing medium at -78°C.

Shipping Conditions

Ship the cells at -78°C.

Storage Conditions

Store the cells at -150°C for up to 196 days.

SV-80 / SV-80 / HLA

Sterility

The cells are free of mycoplasmas and PCR detectable viruses. The cells are also free of endotoxins.

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HLA

A*: '02:01:01, '03:01:01

B*: 15:10:01, 45:01:01

C*: 03:04:02, 16:01:01

DRB1*: '10:01:01, '13:02:01

DQA1*: 01:02:01, 01:05:01

DQB1*: 05:01:01

DPB1*: '01:01:01, '04:02:01G

E: 01:01, 01:03