

CD19⁺ B-LCL-CDG4 | 302015

Surface antigens CD15 (CD19⁺), CD15s (CD19⁺ x CD19⁻), CD75s (CD19⁺ x CD19⁻), CD173 (CD19⁺ H⁻), CD174 (CD19⁺)

Antigen expression CD19⁺, CD20⁺, CD37⁺, CD43⁺, CD44⁺, CD45⁺, CD45R0⁻, MHC Cl.I⁺, MHC Class II (HLA-DR)⁺

Viruses EBV

CD19⁺ B-LCL-CDG4

Culture Medium RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Subculturing 1:2 to 1:10

Fluid renewal 3x per week

Post-Thaw Recovery

Freeze medium RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO₃ (Cytion 820700a) + 10% FBS + 10% DMSO

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed tube containing 10 ml of complete medium. Centrifuge at 300 x g for 5 minutes. Resuspend the pellet in 10 ml of complete medium.
2. **Seeding:** Seed the cells into a 25 cm² flask containing 15 ml of complete medium. The final cell density should be approximately 1.5 x 10⁶ cells per flask.
3. **Medium Change:** After 24 hours, replace the medium with fresh complete medium. The medium should be replaced every 3-4 days.
4. **Expansion:** When the cell density reaches approximately 1.5 x 10⁶ cells per flask, the cells can be expanded into a larger flask.
5. **Passaging:** Pass the cells into a new flask when the cell density reaches approximately 1.5 x 10⁶ cells per flask.
6. **Freezing:** For long-term storage, freeze the cells in a freezing medium and store at -150°C.
7. **Thawing:** Thaw the cells rapidly in a 37°C water bath and seed into a pre-warmed flask containing 15 ml of complete medium.
8. **Characterization:** Perform flow cytometry analysis to confirm the cell identity and purity.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

CD4⁺ Treg-LCL-CDG4 cells require a specific coating for optimal attachment and growth.

**Freezing
Procedure**

For long-term storage, freeze the cells in a freezing medium and store at -78°C.

**Shipping
Conditions**

Shipping conditions should be maintained at -78°C.

**Storage
Conditions**

Storage conditions should be maintained at -150°C for 196 days.

CD4⁺ Treg-LCL-CDG4 / CD4⁺ Treg-LCL-CDG4 / HLA

Sterility

The cells are provided in a sterile, cryoprotected medium.

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XXXXXX HLA

A*: '01:01:01, '24:02:01

B*: 08:01:01, 18:01:01

C*: 07:01:01, 12:03:01

DRB1*: 03:01:01, 15:01:01

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

DQB1*: '02:01:01, '06:02:01

DPB1*: '03:01:01, '04:02:01

E: 01:01, 01:03