

CHO-K1 | 603480

CHO-K1

Description

CHO-K1 is a cell line derived from Chinese hamster ovary (CHO) cells. It is a widely used model system for the production of recombinant proteins, particularly antibodies. The cells are characterized by their ability to grow in suspension and their high productivity. CHO-K1 cells are typically maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 units/ml penicillin, 100 units/ml streptomycin, and 100 units/ml nystatin. They are known for their stability and consistency in protein production.

Organism *CHO-K1*

Tissue CHO-K1

Applications CHO-K1 cells are used for the production of recombinant proteins, antibodies, and viral vectors. They are also used in cell-based assays and drug screening.

Synonyms CHO K1, CHOK1, CHOK1, CHO K1, GM15452

CHO-K1

Age CHO-K1

Gender CHO-K1

Morphology CHO-K1

Growth properties CHO-K1

CHO-K1

Citation CHO-K1 (ATCC CRL-1545) | 603480

Biosafety level 1

NCBI_TaxID 10029

CellosaurusAccession CVCL_0214

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Thawing and Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T75 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37°C in a humidified CO2 incubator (5% CO2) until they reach 70% confluency.
5. Once cells reach 70% confluency, passage them into a new T75 flask with 15 ml of fresh medium.
6. Repeat the passage process every 7-8 days.
7. Harvest cells for analysis when they reach 70-80% confluency.
8. Store the cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO2, humidified

Flask Coating None

Freezing Procedure Harvest cells, wash with PBS, resuspend in freezing medium, aliquot into 1 ml vials, store at -196°C.

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C to -196°C

CHO-K1 / HLA

Sterility Cells are mycoplasma-free and endotoxin-free. PCR testing is available.