

CHO-K1 (Chinese hamster ovary cell line) | 603486

General information

Description	CHO-K1 is a cell line derived from Chinese hamster ovary (CHO) cells, established in 1950. It is a continuous cell line that can be grown in the presence of thymine and hypoxanthine. CHO-K1 cells are widely used in biotechnology for the production of recombinant proteins, antibodies, and vaccines. They are also used in research on cell growth, differentiation, and signaling pathways.
Organism	Mammalian
Tissue	Epithelial
Applications	CHO-K1 cells are used in a variety of applications, including the production of recombinant proteins, antibodies, and vaccines. They are also used in research on cell growth, differentiation, and signaling pathways.
Synonyms	CHO K1, CHOK1, Chinese hamster ovary CHO K1, GM15452

Cell characteristics

Age	Adult
Gender	Male
Morphology	Epithelial cells
Growth properties	Adherent

Documentation and references

Citation	CHO-K1 cell line (Chinese hamster ovary cell line) Cytion 603486
Biosafety level	1
NCBI_TaxID	10029
CellosaurusAccession	CVCL_0214

Product sheet

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CVCL_0001 CHO-K1

Virus susceptibility	Herpesvirus thymus (HVT), Herpesvirus thymus 2, Herpesvirus thymus 2, Herpesvirus thymus 2
Reverse transcriptase	None
Karyotype	Human karyotype 50 cells 2n = 22. Human karyotype 50 cells 2n = 22.
Culture Medium	
Culture Medium	CD CHO ThermoFisher, DMEM, FBS
Supplements	L-Asparagine: 100 mg/ml, L-Glutamine: 100 mg/ml, L-Alanine: 100 mg/ml, L-Arginine: 100 mg/ml, L-Asparagine: 100 mg/ml, L-Glutamine: 100 mg/ml, L-Alanine: 100 mg/ml, L-Arginine: 100 mg/ml
Dissociation Reagent	Trypsin
Doubling time	22 hours
Subculturing	1:5
Seeding density	4×10^5 cells/cm ²
Fluid renewal	2-3 times per week
Freeze medium	DMEM + 10% FBS + 10% DMSO

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**Thawing and
Culturing Cells**

1. 将冻存管中的细胞悬液迅速解冻，并立即转移到含有 10 ml 完全培养基的细胞培养瓶中，轻轻混匀。解冻过程中，请勿将细胞悬液暴露在室温下超过 1 小时。
2. 将细胞培养瓶置于 37°C 培养箱中，静置 24 小时，使细胞贴壁。期间，请勿晃动培养瓶。
3. 24 小时后，检查细胞是否贴壁。如果细胞未贴壁，轻轻晃动培养瓶，使细胞贴壁。
4. 如果细胞贴壁，将培养瓶中的培养基更换为新鲜培养基。更换培养基时，请勿将细胞悬液暴露在室温下超过 1 小时。
5. 将细胞培养瓶置于 37°C 培养箱中，静置 24 小时，使细胞贴壁。期间，请勿晃动培养瓶。
6. 24 小时后，检查细胞是否贴壁。如果细胞未贴壁，轻轻晃动培养瓶，使细胞贴壁。
7. 如果细胞贴壁，将培养瓶中的培养基更换为新鲜培养基。更换培养基时，请勿将细胞悬液暴露在室温下超过 1 小时。
8. 将细胞培养瓶置于 37°C 培养箱中，静置 24 小时，使细胞贴壁。期间，请勿晃动培养瓶。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度。细胞培养过程中，请勿将培养瓶暴露在室温下超过 1 小时。

**Shipping
Conditions**

细胞培养过程中，请勿将培养瓶暴露在室温下超过 1 小时。

**Storage
Conditions**

细胞培养过程中，请勿将培养瓶暴露在室温下超过 1 小时。

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Sterility

细胞培养过程中，请勿将培养瓶暴露在室温下超过 1 小时。