

CCD-1095Sk | 300642

General information

Description	CCD-1095Sk is a human chondrocyte cell line derived from a 37-year-old male patient with a chondrosarcoma. The cells are immortalized and have a karyotype of 46,XY. The cells are grown in DMEM/F12 supplemented with 10% FBS. The cells are used for studying the biology of chondrocytes and the effects of various growth factors and cytokines on chondrocyte differentiation and matrix production.
Organism	Human
Tissue	Cartilage
Disease	Chondrosarcoma
Applications	Cell culture, Differentiation, Matrix production
Synonyms	CCD1095Sk

Cell characteristics

Age	37 years
Gender	Male
Morphology	Epithelial
Growth properties	Adherent

Identification and documentation

Citation	CCD-1095Sk (ATCC CCL-221) Cytion 300642
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2344

Additional information

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Overview

Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO ₃ , w: EBSS (Cytion 820100a)
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Supplements	10% FBS 1% NEAA
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Dissociation Reagent	
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Subculturing	Cells are grown in 25 cm ² flasks in EMEM supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 70-80% confluency. Cells are detached using trypsin-EDTA and resuspended in fresh medium.
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Freeze medium	Cells are frozen in EMEM supplemented with 10% FBS and 10% DMSO. Cells are frozen in 1.5 ml Eppendorf tubes and stored at -80°C.
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Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath.
2. Centrifuge cells at 300 x g for 5 minutes.
3. Resuspend cells in 10 ml of EMEM supplemented with 10% FBS and 1% NEAA.
4. Seed cells into a 25 cm² flask.
5. Incubate cells at 37°C in 5% CO₂.
6. Monitor cell growth and passage when cells reach 70-80% confluency.
7. Harvest cells for analysis or storage.
8. Store cells at -80°C.

Incubation Atmosphere	37°C, 5% CO ₂ , humidified
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Flask Coating	
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Freezing Procedure	Cells are frozen in EMEM supplemented with 10% FBS and 10% DMSO. Cells are frozen in 1.5 ml Eppendorf tubes and stored at -80°C.
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-78°C

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