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Overview

Collection NIA Aging Cell Culture Repository
Subcollection Specially Characterized Fibroblasts
Sample Description WI-38 - NORMAL HUMAN FETAL LUNG FIBROBLAST
Biopsy Source Lung
Cell Type Fibroblast
Tissue Type Lung
Transformant Untransformed
Species Homo sapiens
Common Name Human
Age At Sampling 12 FW
Sex Female
Race Caucasian
Family [1053](#)
Family Member 2
Relation to Proband proband
Clinically Affected No
Confirmation Clinical summary/Case history
ISCN 46,XX
Remarks The WI-38 cell line was developed in July 1962 from lung tissue taken from a therapeutically aborted fetus of about 3 months gestational age. Cells released by trypsin digestion of the lung tissue were used for the primary culture. The cell morphology is fibroblast-like. The karyotype is 46,XX; normal diploid female. A maximum lifespan of 50 population doublings for this culture was obtained at the Repository. A thymidine labelling index of 86% was obtained after recovery. G6PD is isoenzyme type B. This culture of WI-38 is an expansion from passage 9 frozen cells obtained from the submitter.

Catalog ID AG06814-J
Product Cell Culture
Pricing Commercial Pricing: \$180.00
 Academic and not-for-profit pricing: \$100.00
 NIA Grantees: \$40.00

Catalog ID NA06814
Product DNA
Quantity 0.050mg
Source cell culture
Pricing Commercial Pricing: \$55.00
 Academic and not-for-profit pricing: \$55.00
 NIA Grantees: \$55.00

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Characterizations

Sample Description WI-38 - NORMAL HUMAN FETAL LUNG FIBROBLAST
PDL at Senescence 50
PDL at Freeze 44
Passage Frozen 38

IDENTIFICATION OF SPECIES OF ORIGIN Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis and by Chromosome Analysis

Phenotypic Data

Remark The WI-38 cell line was developed in July 1962 from lung tissue taken from a therapeutically aborted fetus of about 3 months gestational age. Cells released by trypsin digestion of the lung tissue were used for the primary culture. The cell morphology is fibroblast-like. The karyotype is 46,XX: normal diploid female. A maximum lifespan of 50 population doublings for this culture was obtained at the Repository. A thymidine labelling index of 86% was obtained after recovery. G6PD is isoenzyme type B. This culture of WI-38 is an expansion from passage 9 frozen cells obtained from the submitter.

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External Links

dbSNP [dbSNP ID: 10119](#)

Images

View [karyotype](#)

Culture Protocols

PDL at Senescence 50

PDL at Freeze 44

Passage Frozen 38

Split Ratio 1:4

Temperature 37 C

Percent CO2 5%

Medium Eagle's Minimum Essential Medium with Earle's salts and non-essential amino acids

Serum 15% fetal bovine serum Not inactivated

Substrate None specified

Subcultivation Method trypsin-EDTA

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