

Cell Line HCT 116 STR Profile Report

Cell Line Designation: HCT 116

Date Sample Received: Oct 20th, 2017

Report Date: Oct 31th, 2017

Methodology: Twenty short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available PowerPlex® 21 System from Promega Corporation. The amplified products were processed using the Applied Biosystems 3730xl DNA Analyzer. Data were analyzed using GeneMapper 5.0 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al. Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

GENECHEM performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

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TEST RESULTS:

Test Results for Submitted Sample		Reference Database Profile
Loci	Query Profile: HCT 116	Database Profile: HCT 116
Amelogenin	X	X
D13S317	10 12	10 12
D16S539	11 12 13 14	11 12 13 14
CSF1PO	7 10	7 10
TH01	8 9	8 9
vWA	17 22	17 22
D7S820	11 12	11 12
D5S818	10 11	10 11
TPOX	8	8
D3S1358	12 19	
D1S1656	12 14	
D6S1043	13	
Penta E	13 14	
D18S51	15 16	
D2S1338	16	
Penta D	9 13	
D8S1179	13 14	
D12S391	17 21	
D19S433	12 13	
FGA	18 24	
D21S11	29 30	
<p><i>Note: The top nine Loci (8 core STR loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, please do not publish the allele calls from all the STR loci tested.</i></p>		

Percent Match: **100%**

The submitted profile is an exact match for the following human cell line(s) in the reference database (8 core loci plus Amelogenin): **HCT 116**

Explanation of Test Results

Cell lines with ≥80% match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

Reference Database Profile was obtained from ExpASY, DSMZ, ATCC or China National Infrastructure of Cell Line Resource STR database.



