

Cell Line U251 STR Profile Report

Cell Line Designation: U251

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.

There are no warranties with respect to the services or results supplied, express or implied, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. GENECHM is not liable for any damages or injuries resulting from receipt and/or improper, inappropriate, negligent or other wrongful use of the test results supplied, and/or from misidentification, misrepresentation, or lack of accuracy of those results. Your exclusive remedy against GENECHM and those supplying materials used in the services for any losses or damage of any kind whatsoever, whether in contract, tort, or otherwise, shall be, at GENECHM 's option, refund of the fee paid for such service or repeat of the service.

TEST RESULTS:

Test Results for Submitted Sample		Reference Database Profile
Loci	Query Profile: U251	Database Profile: U251
Amelogenin	X	X
D13S317	10 11	10 11
D16S539	12	12
CSF1PO	11 12	11 12
TH01	9.3	9.3
vWA	16 18	16 18
D7S820	10 12	10 12
D5S818	11 12	11 12
TPOX	8	8
D3S1358	16 17	
D1S1656	16 17.3	
D6S1043	12	
Penta E	7 10	
D18S51	13	
D2S1338	24	
Penta D	12	
D8S1179	13 15	
D12S391	17 22	
D19S433	13 15	
FGA	21 25	
D21S11	29	
<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 In order to protect the identity of the donor, please do not publish the allele calls from all the STR loci tested.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): **U251**

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.



