



Cell Line Authentication Service STR Profile Report

Sales Order: 240716U
Cell Line Designation: MIA PaCa-2
Date Sample Received: Jul 16th, 2024
Report Date: Jul 31th, 2024

Methodology: Twenty-one short tandem repeat (STR) loci plus the Amelogenin locus were amplified using the commercially available SiFaSTR™ 23 plex Kit. The cell line sample was processed using the ABI Prism® 3130 XL Genetic Analyzer. Data were analyzed using GeneMapper® ID v3.2 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 2021 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Jamie L. Almeida et al., Authentication of Human and Mouse Cell Lines by Short Tandem Repeat (STR) DNA Genotype Analysis. Assay Guidance Manual. PMID: 23805434. Bookshelf ID: NBK144066.

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

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NOTE: According to the recommendations of IJC on cell line authentication, the report is valid for 3 years since the issue date.

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Test Results for Submitted Sample		ExPASy Reference Database Profile	
Loci	Query Profile: MIA PaCa-2	Database Profile: MIA PaCa-2	
Amelogenin	X		
D3S1358	16	16	
D5S818	12 13	12	13
D2S1338	25		
TPOX	9	9	
CSF1PO	10	10	
Penta D	12 16		
TH01	9 10	9	10
vWA	15	15	
D7S820	12 13	12	13
D21S11	29 31.2	29	31.2
Penta E	13 18		
D10S1248	14 15		
D8S1179	16	16	
D1S1656	15 17.3		
D18S51	12	12	
D12S391	19		
D6S1043	12		
D19S433	15		
D16S539	10 13	10	13
D13S317	12 13	12	13
FGA	22	22	

The allele match algorithm compares the 13 core STR loci only, even though alleles from all loci will be reported when available.

*Note: Loci highlighted in grey (13 core STR loci) 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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.*

The sample match is based on the reference data available at the time of comparison.

Explanation of Test Results

Cell lines with $\geq 80\%$ match are derived from the same donor. Cell lines with between a 70% to 79% match require further profiling for authentication of relatedness. Cell lines with $< 70\%$ match are very unlikely to be from the same donor.

- The submitted sample profile is human, but not a match for any profile in the ExPASy STR database.
- The submitted profile is an exact match for the following human cell line(s) in the ExPASy STR database (13 core STR loci): MIA PaCa-2
- The submitted profile is similar to the following ExPASy human cell line(s):

e-Signature Technician:



e-Signature Reviewer:



More information

Addendum: Electropherogram for the customer's sample set 1 of 1



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