



Cell Line Authentication Service STR Profile Report

Sales Order: 240419A
Cell Line Designation: 1
Date Sample Received: Apr 19th, 2024
Report Date: Apr 25th, 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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Loci	Test Results for Submitted Sample				ExPASy Reference Database Profile			
	Query Profile: 1				Database Profile: IGROV-1			
Amelogenin	X							
D3S1358	13	14	15		13	14	15	
D5S818	12	13			<u>11</u>	12	13	
D2S1338	17	25	26					
TPOX	8	11			8	11		
CSF1PO	11	16			11	<u>12/13</u>	<u>14/15</u>	16
Penta D	8	10						
TH01	7	9.3			7	9.3		
vWA	16	17	20	21	16	17	20	21/22
D7S820	9.1	10.1	<u>10.2</u>		9.1	10.1	<u>11.1</u>	
D21S11	26	30.2			26	<u>29.2</u>	30.2	
Penta E	13	17						
D10S1248	11	12						
D8S1179	14	<u>15</u>	16		14	16		
D1S1656	11	12	15	16				
D18S51	15	16			<u>14</u>	15	16	
D12S391	19	20	24	26/27				
D6S1043	12	18	19					
D19S433	13	14						
D16S539	11	12			<u>10</u>	11	12	<u>13</u>
D13S317	8	10						
FGA	20	21	26		20	21	26	

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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):
- The submitted profile is similar to the following ExPASy human cell line(s): IGROV-1 (82.19% match)

e-Signature Technician:



Digitally signed by Xuekun Chen
DN: cn=Xuekun Chen, o=Genetic Testing
Biotechnology (Suzhou), ou=DNA Typing Section,
email=order@jsdna.org, c=CN
Date: 2024.04.25 16:13:33 +08'00'

e-Signature Reviewer:

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More information

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



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