



Cell Line Authentication Service STR Profile Report

Sample Submitted By:
Sales Order: 240716N
Cell Line Designation: Jurkat
Date Sample Received: Jul 16th, 2024
Report Date: Jul 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: Jurkat			Database Profile: Jurkat E6.1	
Amelogenin	X	Y			
D3S1358	15	17		15	17
D5S818	9			9	
D2S1338	19	23			
TPOX	8	10		8	10
CSF1PO	11	12		11	12
Penta D	11	13			
TH01	6	9.3		6	9.3
vWA	18	19		18	19
D7S820	8	10		8	10
D21S11	31.2	<u>32.2</u>	33.2	31.2	33.2
Penta E	10	12			
D10S1248	14	16			
D8S1179	13	14		13	14
D1S1656	16	16.3			
D18S51	13	21		13	21
D12S391	22	23	24		
D6S1043	11				
D19S433	14	15.2			
D16S539	11			11	
D13S317	8	12		8	12
FGA	20	21		20	21

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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): Jurkat E6.1 (97.96% match)

e-Signature Technician:



Digitally signed by Xuekun Chen
DN: cn=Xuekun Chen, o=Genetic Testing
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e-Signature Reviewer:

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More information

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



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