



Cell Line Authentication Service STR Profile Report

Sample Submitted By: Dr. Luan Wen
Hainan Medical University
Email Address: luanwen@hainmc.edu.cn
Sales Order: 241118A
Cell Line Designation: H1-dU
Date Sample Received: Nov 18th, 2024
Report Date: Nov 19th, 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.

Technical Questions?
GTB Technical Support
+86-512-67486171
service@jsdna.org
Section 505, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Ordering Questions?
order@jsdna.org
GTB Corporation
+86-512-62806339
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China



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Loci	Test Results for Submitted Sample		ExPASy Reference Database Profile	
	Query Profile: H1-dU		Database Profile: WA01(H1)	
Amelogenin	X	Y		
D3S1358	15		15	
D5S818	9	11	9	11
D2S1338	18	19		
TPOX	8	11	8	11
CSF1PO	12	13	12	13
Penta D	10	13		
TH01	9.3		9.3	
vWA	15	17	15	17
D7S820	8	12	8	12
D21S11	28	32.2	28	32.2
Penta E	10	12		
D10S1248	13	15		
D8S1179	12	13	12	13
D1S1656	15.3	17.3		
D18S51	17	18	17	18
D12S391	20			
D6S1043	12	14		
D19S433	13	15		
D16S539	9	13	9	13
D13S317	8	11	8	11
FGA	20	24	20	24

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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 ≥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): WA01(H1)
- 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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