



Cell Line Authentication Service STR Profile Report

Sales Order: 240622A
Cell Line Designation: AC16
Date Sample Received: Jun 22th, 2024
Report Date: Jun 24th, 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:			Database Profile:		
	AC16			AC16 [Human hybrid cardiomyocyte]		
Amelogenin	X					
D3S1358	17	18		17	18	
D5S818	9	11		9	11	
D2S1338	20	23	26			
TPOX	11			11		
CSF1PO	9	11	12	9	11	12
Penta D	2.2					
TH01	7	8	9.3	7	8	9.3
vWA	16	18		16	18	
D7S820	10	11		10	11	<u>12</u>
D21S11	32.2	33.2		32.2	33.2	
Penta E	16					
D10S1248	13	14	15			
D8S1179	14	<u>15</u>		<u>12</u>	14	
D1S1656	12					
D18S51	17			<u>12</u>	17	
D12S391	17.3	21				
D6S1043	14	17				
D19S433	15	15.2				
D16S539	11	13		11	13	
D13S317	12	13		12	13	
FGA	21			21	<u>25</u>	

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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):
AC16 [Human hybrid cardiomyocyte] (90.57% match)

e-Signature Technician: Digitally signed by Xuekun Chen
DN: cn=Xuekun Chen, o=Genetic Testing Biotechnology
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More information



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

