



Cell Line Authentication Service STR Profile Report

Sales Order: 240628I
Cell Line Designation: LNCaP
Date Sample Received: Jun 28th, 2024
Report Date: Jun 28th, 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: LNCaP			Database Profile: LNCaP		
Amelogenin	X	Y				
D3S1358	16			16		
D5S818	11	12		11	12	
D2S1338	16					
TPOX	8	9		8	9	
CSF1PO	10	11		10	11	
Penta D	12	12.4				
TH01	9			9		
vWA	16	18		16	18	
D7S820	9.1	10.3		9.1	10.3	
D21S11	29	<u>32.2</u>		29	<u>31.2</u>	
Penta E	12	16				
D10S1248	14	16				
D8S1179	12	13	14	12	13	14
D1S1656	16					
D18S51	11	12		<u>9</u>	11	12
D12S391	21	22				
D6S1043	11	12	18			
D19S433	13.2	15				
D16S539	11			11		
D13S317	10	12		10	<u>11</u>	12 <u>13</u>
FGA	19	20		19	20	

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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):
- The submitted profile is similar to the following ExPASy human cell line(s): LNCaP (90.20% match)

e-Signature Technician:



Digitally signed by Xuekun Chen
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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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