

Cell Line Authentication Service STR Profile Report

Sales Order: 240716Z
Cell Line Designation: U2OS
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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Test Results for Submitted Sample		ExPASy Reference Database Profile	
Loci	Query Profile: U2OS	Database Profile: U2OS	
Amelogenin	X		
D3S1358	16	16	
D5S818	11	11	
D2S1338	20 24		
TPOX	11 12	11 12	
CSF1PO	13	13	
Penta D	9		
TH01	6 9.3	6 9.3	
vWA	14 18	14 18	
D7S820	11 12	11 12	
D21S11	31	31	
Penta E	10 13		
D10S1248	13 14		
D8S1179	12 14	12 14	
D1S1656	16 17.3		
D18S51	14	14	
D12S391	19 20		
D6S1043	11		
D19S433	15		
D16S539	11 12	11 12	
D13S317	13	13	
FGA	20	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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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 $\geq 80\%$ 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): U2OS
- ☐ The submitted profile is similar to the following ExPASy human cell line(s):

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: 2024.07.25 14:21:39 +08'00'

e-Signature Reviewer:

Digitally signed by Xiankun Zhao
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More information

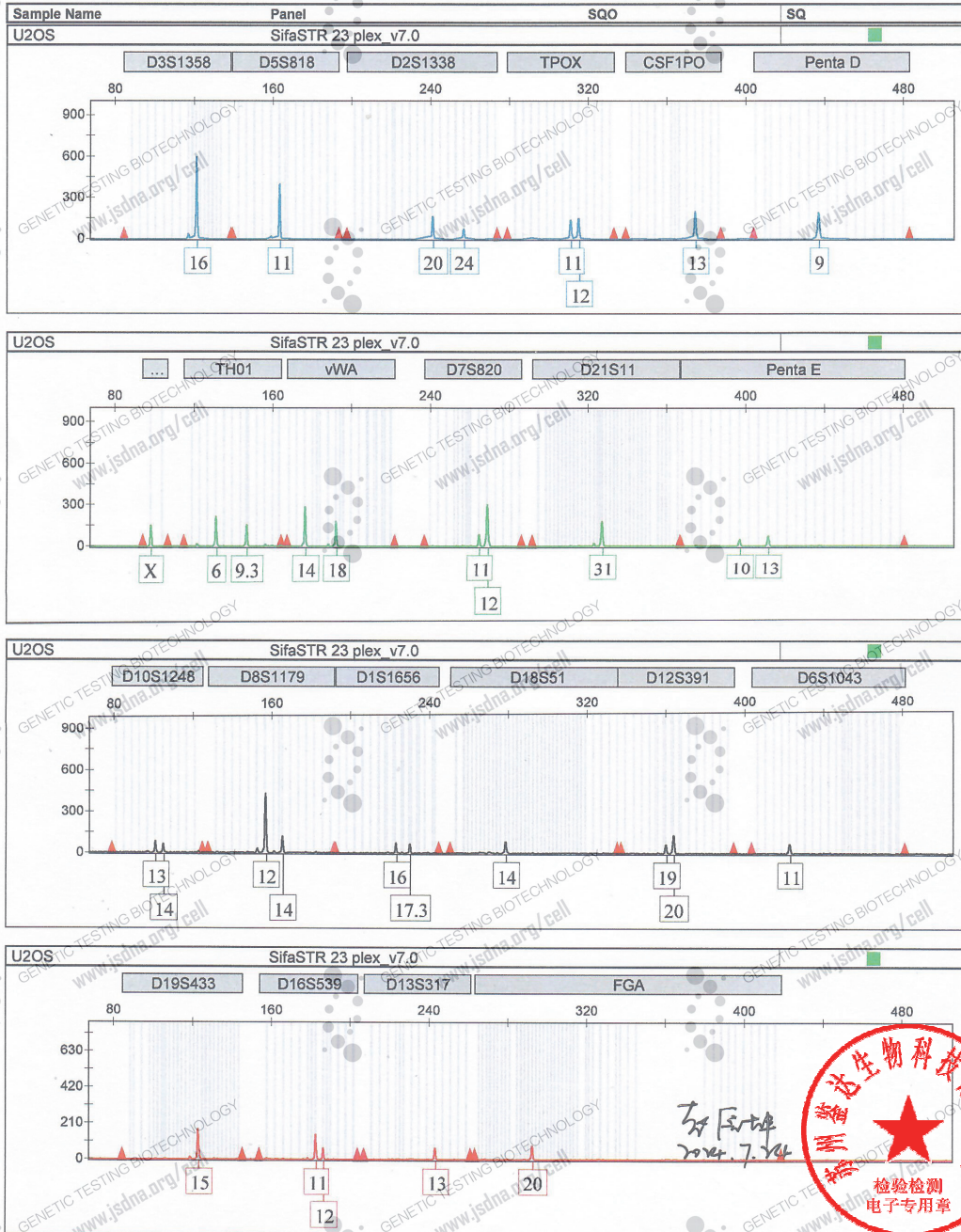
Addendum: Electropherogram for the customer's sample set 1 of 1



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Applied
Biosystems
GeneMapper ID v3.2

240724



Wed Jul 24, 2024 04:22PM, CST

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