

Cell Line Authentication Service STR Profile Report

Sales Order: 240508N
Cell Line Designation: HTMC
Date Sample Received: May 8th, 2024
Report Date: May 13th, 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 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

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: HTMC		Database Profile: NA
Amelogenin	X	Y	
D3S1358	16	17	
D5S818	9	11	
D2S1338	17	19	
TPOX	8	11	
CSF1PO	12		
Penta D	13		
TH01	6	7	
vWA	14	15	
D7S820	10	12	
D21S11	28	30	
Penta E	13	17	
D10S1248	13	16	
D8S1179	12	13	
D1S1656	11	14	
D18S51	13	15	
D12S391	18	24	
D6S1043	19		
D19S433	12	13	
D16S539	11		
D13S317	9	11	
FGA	21	25	

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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 considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

- ☒ 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):

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: 2024.05.13 10:28:44 +08'00'

e-Signature Reviewer:

Digitally signed by Xiankun Zhao
DN: cn=Xiankun Zhao, o=Genetic Testing
Biotechnology (Suzhou), ou=Supervision Section,
email=service@jsdna.org, c=CN
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More information

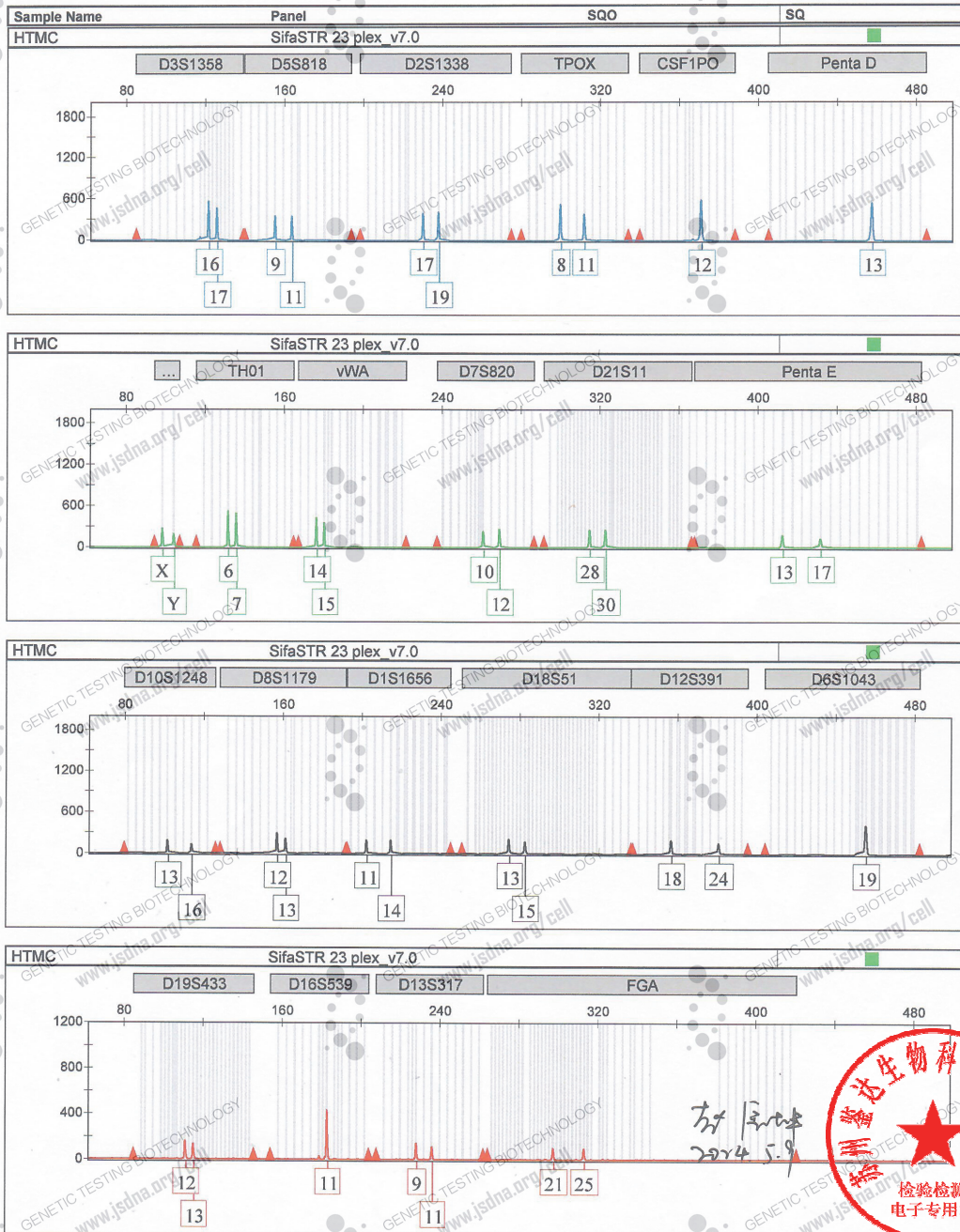
Addendum: Electropherogram for the customer's sample set 1 of 1



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Applied
Biosystems
GeneMapper ID v3.2

240509



Thu May 09, 2024 03:14PM, CST

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