

Cell Line Authentication Service STR Profile Report

Sample Submitted By: NingboMingzhouBiologicalTechnologyCo., Ltd
Sales Order: 210912H-1
Cell Line Designation: HMC
Date Sample Received: Sep 12th, 2021
Report Date: Sep 25th, 2021

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: HMC			Database Profile: HMC		
AMEL	X			X		
D3S1358	14	14		14	14	
D5S818	9	12	13	9	12	13
D2S1338	23	23				
TPOX	8	8		8	8	
CSF1PO	11	12		11	12	
Penta D	9	13				
TH01	9	9		9	9	
vWA	16	16		16	16	
D7S820	9	9		9	9	
D21S11	28	28		28	28	
Penta E	5	17				
D12S391	17	24				
D8S1179	13	13		13	13	
D1S1656	11	17.3				
D18S51	13	13		13	13	
D12S391	17	24				
D6S1043	12	13				
D19S433	13	14	15			
D16S539	9	12		9	12	
D13S317	12	12		12	12	
FGA	25	25		25	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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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 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): HMC
- ☐ 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,
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Date: 2021.09.25 12:19:50 +08'00'

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Date: 2021.09.25 12:24:07 +08'00'



More information

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



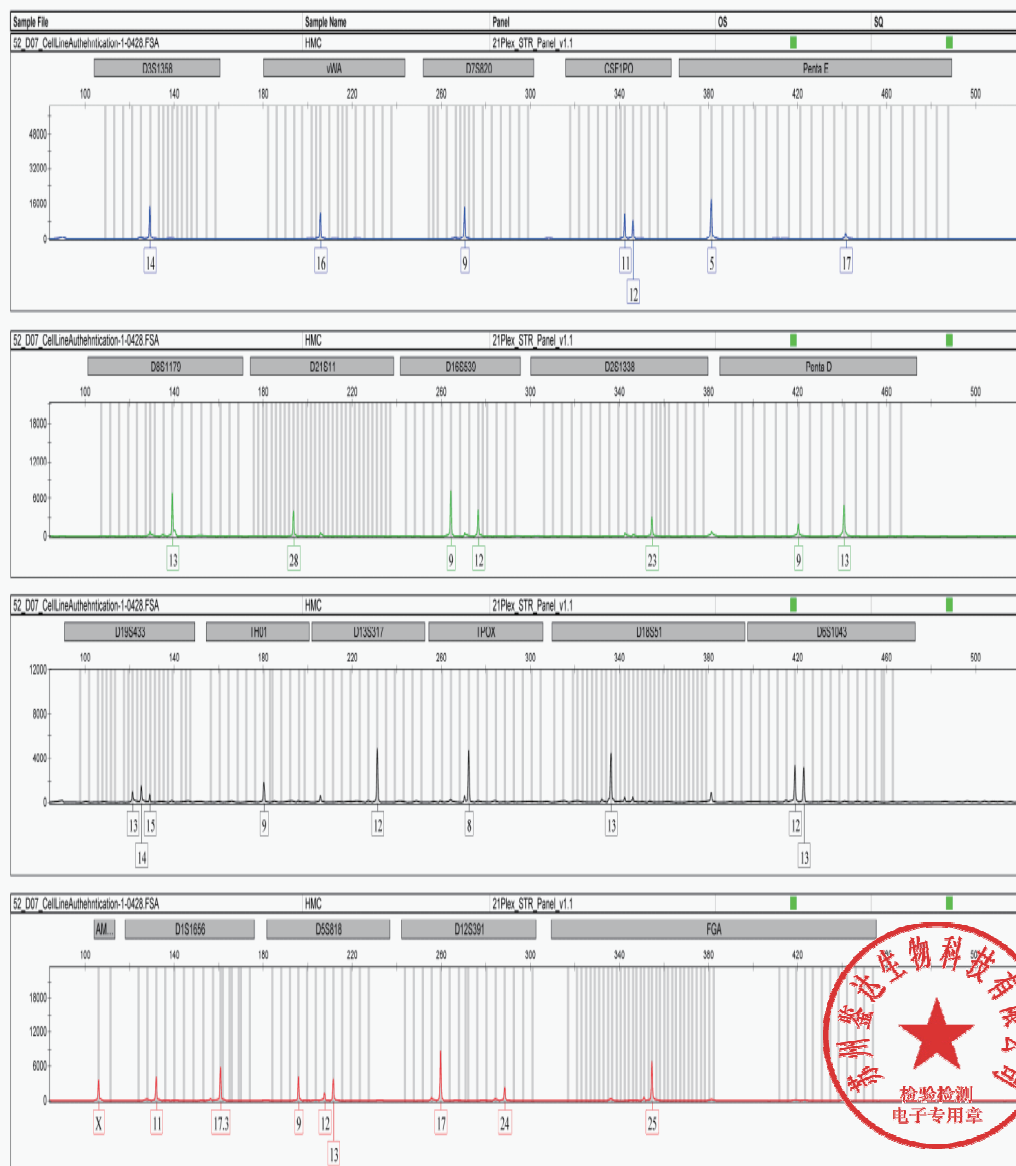
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AB Applied Biosystems
GeneMapper ID v3.2

210924

GeneMapper ID v3.2



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