GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service
STR Profile Report

Sample Submitted By:	Dr. Weilin Wang Zhejiang University
Email Address:	wam@zju.edu.cn
Sales Order:	180905J
Cell Line Designation:	HuH-7
Date Sample Received:	Sep 5th, 2018
Report Date:	Sep 6th, 2018

Methodology: Nineteen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available EX20 Kit from AGCU. 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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Test Results for Submitted Sample			DSMZ Reference Database Profile	
Loci	**Query Profile:** HuH-7		**Database Profile:** HuH-7	
Amelogenin	X		X	
D3S1358	15			
D13S317	10	11	10	11
D7S820	11		11	
D16S539	10		10	
Penta E	11			
TPOX	8	11	8	11
TH01	7		7	
D2S1338	19			
CSF1PO	11		11	
Penta D	12			
D19S433	13	14		
vWA	16	18	16	18
D21S11	30			
D18S51	15			
D6S1043	13	15		
D8S1179	14	15		
D5S818	12		12	
D12S391	20	21		
FGA	22			

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (8 core STR loci plus Amelogenin) 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 In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested.*

Explanation of Test Results

Cell lines with ≥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 DSMZ STR database.
- ☑ The submitted profile is an exact match for the following human cell line(s) in the DSMZ STR database (8 core loci plus Amelogenin): HuH-7
- ☐ The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature, Technician: Digitally signed by Faye Wong
DN: cn=Faye Wong, o=Genetic Testing Biotechnology (Suzhou), ou=DNA Typing Section, email=order@jsdna.org, c=CN
Date: 2018.09.06 18:28:29 +08'00'

e-Signature, Reviewer: Digitally signed by Alan Cui
DN: cn=Alan Cui, o=Genetic Testing Biotechnology (Suzhou), ou=Supervision Section, email=service@jsdna.org, c=CN
Date: 2018.09.06 18:31:14 +08'00'

More information

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

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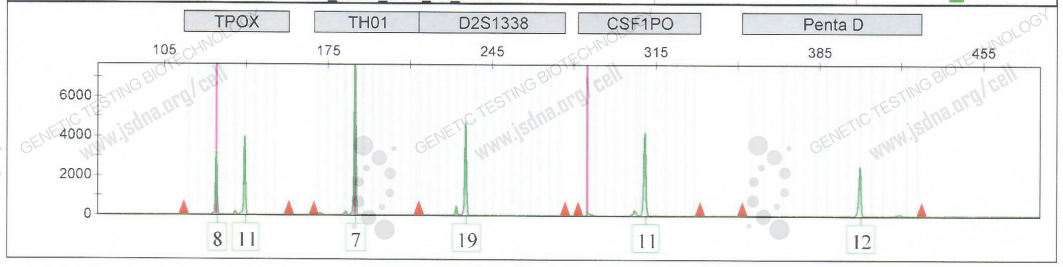
Applied Biosystems
GeneMapper ID v3.2

180906

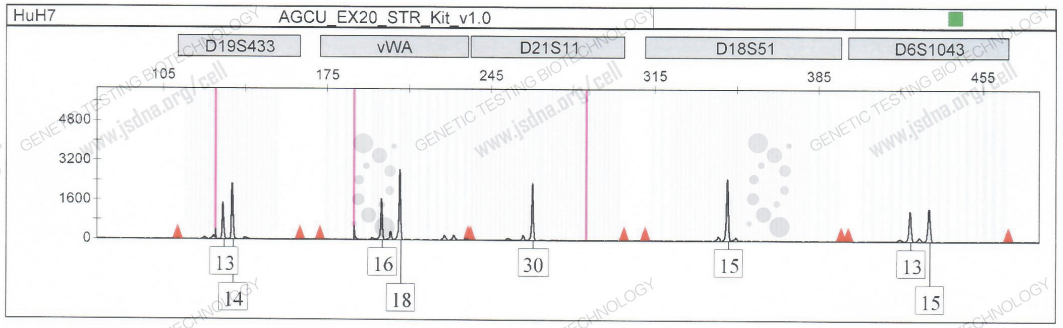
Sample Name	Panel	SQO	SQ
HuH7	AGCU_EX20_STR_Kit_v1.0		



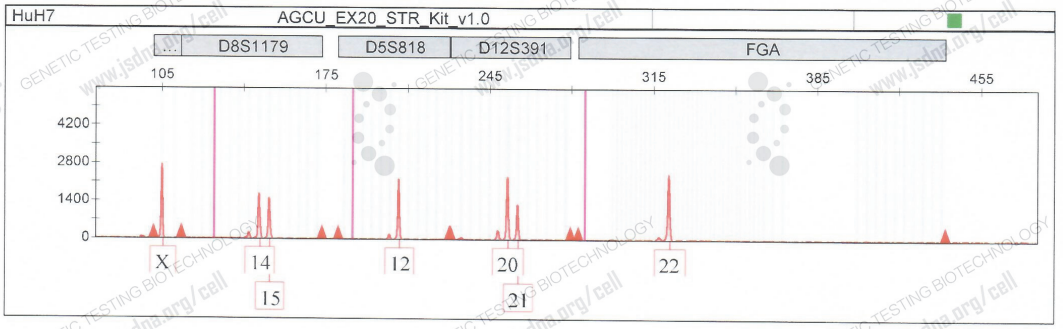
HuH7 AGCU_EX20_STR_Kit_v1.0



HuH7 AGCU_EX20_STR_Kit_v1.0



HuH7 AGCU_EX20_STR_Kit_v1.0



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