

**CELL LINE AUTHENTICATION SERVICE**

## STR Profile Report

<b>Sample Submitted By:</b>	<b>WU FU JIAN</b>
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<b>Project Number:</b>	<b>IGXN20180</b>
<b>Cell Line Designation:</b>	<b>H9</b>
<b>Date Sample Received:</b>	<b>2020-12-19</b>
<b>Date Reported:</b>	<b>2020-12-23</b>
<b>Methodology :</b>	The cell line sample was processed and 21 short tandem repeat (STR) loci including the gender determining locus, Amelogenin, were amplified using the IGE STE 21 commercial kit in an ABI 9700 PCR system. The PCR product was processed using an ABI Prism® 3730XL Genetic Analyzer. Data were analyzed using GeneMapper® ID v5.0 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.
<b>Data Interpretation:</b>	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.

**Results**

Alleles	Allele 1	Allele 2	Allele 3	Allele 4
STR profile				
Amelogenin	X	X		
D3S1358	13	16		
vWA	17	17		
D7S820	9	11		
CSF1PO	11	11		
PentaE	11	14		
D8S1179	8	14		
D21S11	30	30		
D16S539	12	13		
D2S1338	18	24		
PentaD	9	13		
D19S433	12	15		
TH01	9.3	9.3		



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Alleles	Allele 1	Allele 2	Allele 3	Allele 4
STR profile				
D13S317	9	9		
TPOX	10	11		
D18S51	12,3	13		
D6S1043	12	19		
D1S1656	12	13		
D5S818	11	12		
D12S391	15	19		
FGA	26	28		

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/ATCC/STR STR databases which include approximately 2455 different type of cells.

The submitted profile is an exact match for the following IGE human cell line(s) in the IGE STR database (8 core loci plus Amelogenin): H9

The submitted profile is similar to the following human cell line(s):

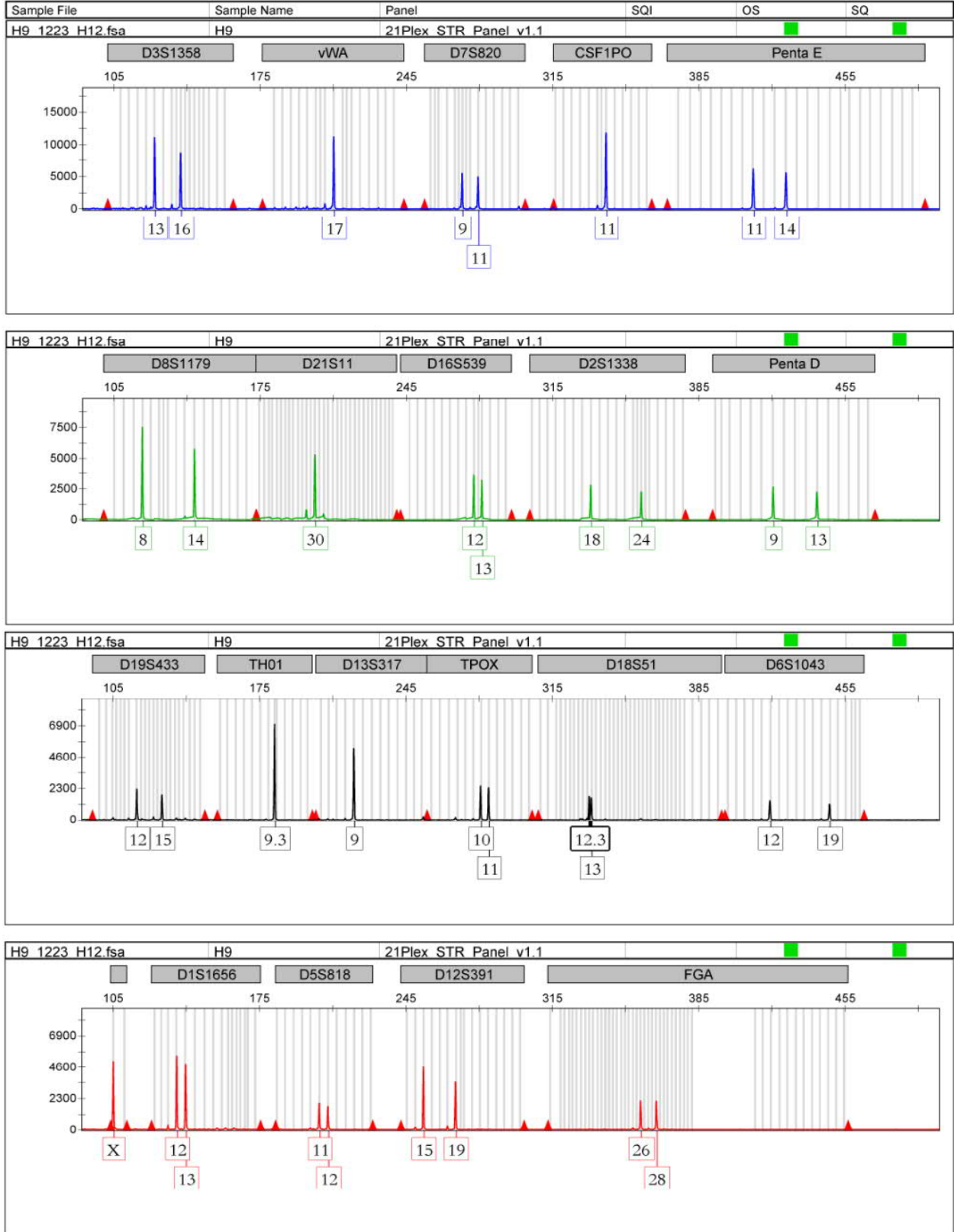
Matches:												
NO.	Percent Match	Cell No.	Cell name	D5S818	D13S317	D7S820	D16S539	vWA	TH01	AM	TPOX	CSF1PO
			Query(Your Cell)	11,12	9,9	9,11	12,13	17,17	9.3,9.3	X,X	10,11	11,11
1	100%	USNIHS013	WA09	11,12	9,9	9,11	12,13	17,17	9.3,9.3	X,X	10,11	11,11
2	100%	WA09	H9	11,12	9,9	9,11	12,13	17,17	9.3,9.3	X,X	10,11	11,11



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### STR Typing





IGE BIOTECH INC., LTD.

## CELL LINE AUTHENTICATION SERVICE

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