



Cell Line Authentication Service

STR Profile Report

Sample Submitted By: Stephen Sugrue
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ATCC Sales Order: SOH78416

FTA Barcode: STRA0571

Cell Line Designation: HCET

Date Sample Received: November 20, 2015

Report Date: December 2, 2015

Methodology: Seventeen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available PowerPlex® 18D Kit from Promega. The cell line sample was processed using the ABI Prism® 3500xl Genetic Analyzer. Data were analyzed using GeneMapper® ID-X v1.2 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) *Authentication of Human Cell Lines: Standardization of STR Profiling* 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*. 2012 Nov 8. doi: 10.1002/ijc.27931

ATCC performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

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Technical questions?

ATCC Technical Support
(800) 638-6597 / +1 703-365-2700
STRTechSupport@atcc.org

Ordering questions?

800-638-6597 or 703-365-2700
Fax 703-365-2750
Email: STRtesting@atcc.org



Test Results for Submitted Sample				ATCC Reference Database Profile			
Loci	Query Profile: HCET			Database Profile: None			
D3S1358	15	17					
TH01	7	8					
D21S11	27	30					
D18S51	13	15					
Penta_E	15	16					
D5S818	9	13					
D13S317	8						
D7S820	10	13					
D16S539	9	11					
CSF1PO	9	12					
Penta_D	12	15					
Amelogenin	X						
vWA	18	19					
D8S1179	11	13					
TPOX	8	11					
FGA	20						
D19S433	13	14					
D2S1338	19	20					
Number of shared alleles between query sample and database profile:							N/A
Total number of alleles in the database profile:							N/A
Percent match between the submitted sample and the database profile:							N/A
<i>The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.</i>							
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 In order to protect the identity of the donor, please do not publish the allele calls from all the STR loci tested. Electropherograms showing raw data are attached.							

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

Additional Comments:

Submitted sample, STRA0571 (HCET), is not a match to any cell line in the ATCC STR database. A search of the DSMZ STR database, shows a match to two cell lines, RCB1384 (HCE-T) and RCB2280 (HCE-T). (see attached)

e-Signature, Technician:	kkindig 12/02/15
e-Signature, Reviewer:	mkone 12/02/15



Result of STR matching analysis by your data.

- DSMZ Profile Database -

A graphical presentation is shown at the bottom of this page.

EV	Cell No.	Cell name	Locus names									Figures
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO	
		<i>Query (Your Cell)</i>	9,13	8,8	10,13	9,11	18,19	7,8	X,X	8,11	9,12	
1.22 (44/36)	RCB1384	HCE-T	13,13	8,8	10,13	9,11	18,19	7,8	X,X	8,11	12,12	-
1.22 (44/36)	RCB2280	HCE-T	13,13	8,8	10,13	9,11	18,19	7,8	X,X	8,11	12,12	-



