



Cell Authentication Service STR Profile Testing Report

Sample Submitted By: Nathan Moerke
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ATCC Sales Order Number: SOF49100
ATCC ID Number: 003399
Cell Line Designation: K2
Sample Type Submitted: FTA
Level of Service: Verified(135-XV)
Date Sample Received: July 26, 2013
Report Date: August 5, 2013

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® IDX v1.2 software (Applied Biosystems). Appropriate positive and negative controls were used throughout the test procedure.

Sample Disposition: The cell line sample will be destroyed by a certified waste disposal company 6 months after the testing has been completed.

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

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Test Results for Submitted Sample				ATCC Profile or Reference Profile Provided by Submitting Institution			
Loci	Query Profile: K2			Database (or Reference) Profile: None			
D3S1358	14	15					
TH01	7						
D21S11	31						
D18S51	17						
Penta_E	11	12					
D5S818	11						
D13S317	10	13					
D7S820	10	11					
D16S539	10	13					
CSF1PO	10	11					
Penta_D	8						
Amelogenin	X						
vWA	17						
D8S1179	12						
TPOX	11						
FGA	21	22					
D19S433	13						
D2S1338	24						
Number of shared alleles between query sample and database (or reference) profile:							N/A
Total number of alleles in the database (or reference) profile:							N/A
Percent match between the submitted sample and the database (or reference) profile:							N/A
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 In order to protect the identity of the donor, please do not publish the allele calls from all the STR loci tested.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 ≥ 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):
- The submitted sample profile is related to the reference profile provided by the submitting institution.
- The submitted profile is NOT related to the reference profile provided by the submitting institution.

Additional Comments:

Submitted sample (003399 (K2)), does not match any cell lines within the ATCC database or DSMZ database.

e-Signature, Technician:	jgarnett 08/05/13
e-Signature, Reviewer:	kcottrill 08/05/13



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Addendum: Comparative Output from the ATCC STR Profile Database

% Match	ATCC® Cat. No,	Designation	D5S818	D13S317	D7S820	D16S539	vWA	THO1	AMEL	TPOX	CSF1PO
100	N/A	K2	11	10,13	10,11	10,13	17	7	X	11	10,11

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