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Cell Line Authentication Service

STR Profiling Report

Sample Type: Cell Line

Sample from: Department of General Surgery, Renji Hospital,
School of Medicine, Shanghai Jiao Tong University

Testing Method: STR Genotyping

Report Time: March 29, 2018



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Cell Line Authentication – STR Profiling Report

Sample code

Table 1. Sample Code

Customer's code	Company Code
BGC-823	20180323-01

Sample Number:1

Sample Type: Cell line

Testing Type: STR

Sample From: Department of General Surgery, Renji Hospital, School of Medicine, Shanghai Jiao Tong University

Testing Method:

DNA was extracted by a commercial kit from CORNING (AP-EMN-BL-GDNA-250G). The twenty STRs including Amelogenin locus were amplified by six multiplex PCR and separated on ABI 3730XL Genetic Analyzer. The signals were then analyzed by the software GeneMapper.

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.

Test Results:

1. Result

Table 2. Matching information on the cell lines

Sample Code	Multi-allele	Cell line matched	Cell Bank	EV	Percentage
20180323-01	Yes	BGC823, HELA	DSMZ,CRC	1	9/9

- Multi-allele means some STR contain more than two loci.

2. Sample Description



20180323-01:

A. The STR results showed that multiple alleles were found in this cell line, and no cross contamination of human cells was found in the cell line.

B. The DNA of the cell lines found to basic match the type of cell lines in a cell line retrieval, CRC database shows that cells called **BGC823, HELA**, corresponding to the cell number_

3111C0001CCC000062, 36.

匹配结果表															
ID	细胞名	D8S1179	D21S11	D7S820	CSF1PO	D3S1358	TH01	D13S317	D16S539	D2S1338	D19S433	vWA	TPOX	D18S51	Amelogenin
	你的数据	12	27,28	8,12	9,10	15,18	7	12,13.3	9,10	17	13,14	16,18	8,12	16	X
104	BGC-823	12,13	27,28	8,12	9,10	15,18	7	12,13.3	9,10	17	13	16,18	8,12	16	X
21	GLC-82 [GLC82]	12,13	27,28	8,12	9,10	18	7	12,13.3	9,10	17	13,14	16,18	8,12	16	X
36	HeLa	12,13	27,28	8,12	9,10	15,18	7	12,13.3	9,10	17	13,14	16,18	8,12	16	X

3. Genotyping Result

Table 3. STR and Amelogenin Genotyping Results of Cell line 20180323-01

Loci	Sample information			Cell Bank information		
	Sample name : BGC-823			Cell line name : BGC-823,HELA		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	12	13.3		12	13.3	
D7S820	8	12		8	12	
D16S539	9	10		9	10	
VWA	16	18		16	18	
TH01	7	7		7	7	
AMEL	X	X		X	X	
TPOX	8	12		8	12	
CSF1PO	9	10		9	10	
D12S391	20	25				
FGA	21	24	26			
D2S1338	17	17				
D21S11	27	28				
D18S51	16	16				



D8S1179	12	13	
D3S1358	15	18	
D6S1043	18	19	
PENTAE	7	17	
D19S433	13	13	
PENTAD	8	15	

Others:

1. Genotyping Strategy and Site Distribution

Attached Table. Experimental Strategy and Sites

	Strategy 1	Strategy 2	Strategy 3	Strategy 4
1	TH01	TPOX	D3S1358	AMEL
2	D12S391	VWA	D13S317	D5S818
3	D7S820	D8S1179	D6S1043	D2S1338
4	CSF1PO	PENTAD	D16S539	D21S11
5	FGA		D19S433	D18S51
6	PENTAE			

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

2. DSMZ tools was used to carry on the cell line comparison, which contains 2455 cell lines STR data from ATCC, DSMZ, JCRB ,ECACC , GNE and RIKEN databases. If the cell is not included in the above cell library, users need to compared with other databases.

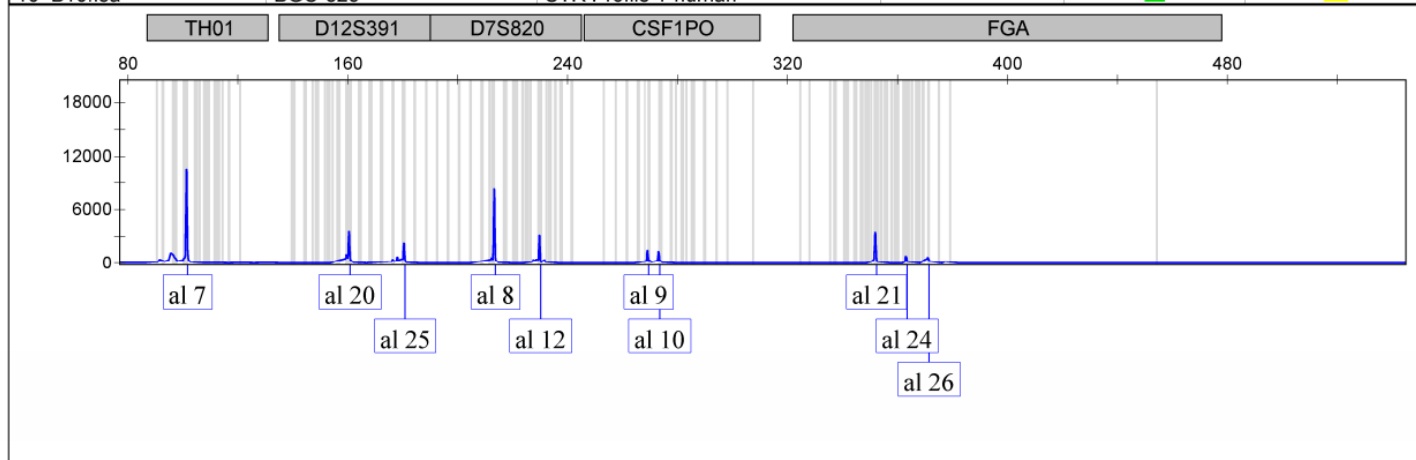
Technician: Menglu Shen

Check: Yang Bai

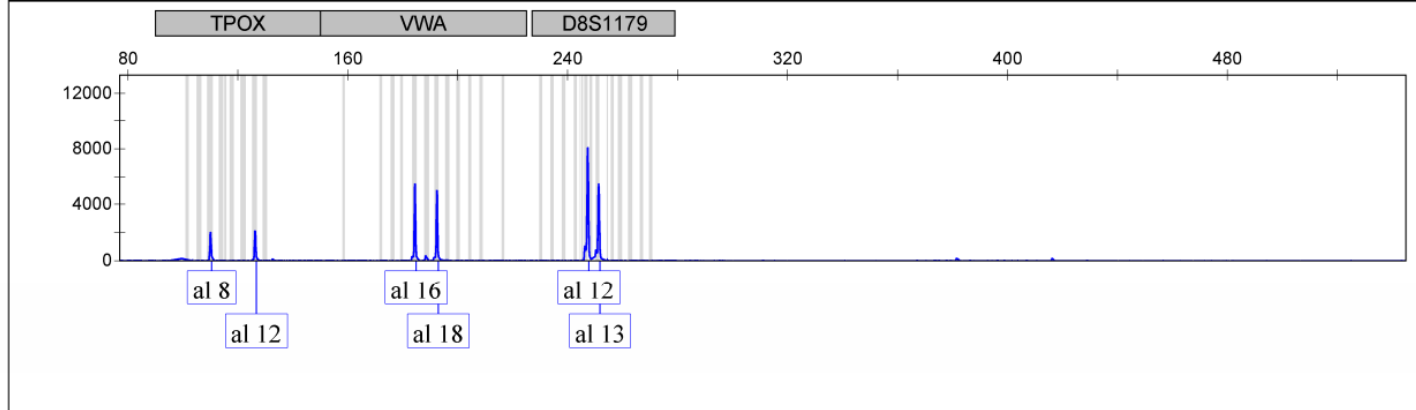
Person in Charge: Yiqun Chen

Issue date: March 29, 2018

Sample File	Sample Name	Panel	SQI	OS	SQ
10_B10.fsa	BGC-823	STR Profile 1-human		■	▲



Sample File	Sample Name	Panel	SQI	OS	SQ
10_G10.fsa	BGC-823	STR Profile 2-human		■	▲



Sample File	Sample Name	Panel	SQI	OS	SQ
11_D11.fsa	BGC-823	STR Profile 3-human		■	▲

