



Cell Line Authentication Service

STR Genotype Test Report

Inspection unit : iCell Bioscience Inc

Name of sample: cell line

Testing unit: Shanghai Yihe Applied Biotechnology Co., Ltd.

Date of Report: March 9, 2023

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The Report Instructions

1. This report is only responsible for the submitted samples.
2. The test results and the name of the testing organization on the report may not be used for advertising, awards evaluation, or commercial promotion without permission.
3. Any objections to this report must be submitted in writing within fifteen days of receiving the report; late submissions will not be accepted.
4. Altered, added, or deleted paper reports, or copies without the official seal of the testing organization, are invalid.



Sample information

Sample ID :

Customer sample ID	Company ID
HEPG2	202200302-09

Sample Quantity : 1

Sample type : cell line

Test item : STR

Testing unit : iCell Bioscience Inc

Test method : DNA was extracted using the Axygen Genomic DNA Extraction Kit. The 21-STR amplification scheme was used, and STR loci and the sex gene Amelogenin were analyzed on the ABI 3730XL Genetic Analyzer.



Testing Result

(1) Basic information

Company ID	Multiallele	Matched Cell Lines	Cell Bank	EV value	Matching Description
202200302-09	None	HEP-G2	DSMZ	1.0	Complete Match

The genotype test results of the samples

- Multi-allelic genes refer to the presence of three or more alleles.
- In this test, the typing results for each cell sample were satisfactory.

(2) Sample Description

- 202200302-09 : The DNA profile of this cell line found a **complete match** in the cell line database. The DSMZ database identified the cell line as **HEP-G2**, corresponding to cell number **180**. **No multi-allelic gene phenomena** were observed in this cell line during the test.
- **Note:** The tested cell lines were compared with STR data of cell lines recorded in the **ATCC, DSMZ, JCRB, and RIKEN** databases. Cell lines not included in the above-mentioned cell banks cannot be matched.



(3) Sample Typing Results

Genotyping results of the STR loci and Amelogenin locus for cell 202200302-09.						
Loci	Cell STR Information			Cell Bank STR Information		
	Cell Name : HEPG2			Cell Bank Cell Name : HEP-G2		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	9	13		9	13	
D7S820	10	10		10	10	
D16S539	12	13		12	13	
VWA	17	17		17	17	
TH01	9	9		9	9	
AMEL	X	Y		X	Y	
TPOX	8	9		8	9	
CSF1PO	10	11		10	11	
D12S391	21	25				
FGA	22	25				
D2S1338	19	20				
D21S11	29	31				
D18S51	13	14				
D8S1179	15	16				
D3S1358	15	16				
D6S1043	13	13				
PENTAE	15	20				
D19S433	15.2	15.2				
PENTAD	9	13				
D1S1656	11	12				



Other Notes

(1) Typing Scheme and Locus Distribution

	Plan 1	Plan 2	Plan 3	Plan 4
1	D3S1358	D8S1179	D19S433	AMEL
2	VWA	D21S11	TH01	D1S1656
3	D7S820	D16S539	D13S317	D5S818
4	CSF1PO	D2S1338	TPOX	D12S391
5	PENTAE	PENTAD	D18S51	FGA
6			D6S1043	

Experimental Scheme and Loci

(2) STR Database Comparison

Our company uses DSMZ tools for cell line comparisons, which include STR data from 2455 cell lines recorded in the ATCC, DSMZ, JCRB, and RIKEN databases. If the tested cell line is not included in the above cell banks or is a newly established cell line, comparison cannot be performed. Users will need to compare the cell typing results with other databases on their own.

(3) Reference

- 1 . Authentication testing of HEK 293T and HeLa cell lines have been performed by Shanghai Biowing Applied Biotechnology Co.,Ltd via STR profiling. STR profiles match the standards recommended for HEK 293T and HeLa cell lines authentication
- 2 . AGS, NCI-N87, HGC-27 and HEK293 were STR-authenticated on Dec. 8, 2015 by Shanghai Biowing Applied Biotechnology Co. LTD, Shanghai, China

Main Experiment Personnel : Zhang Jianan

Reviewer : Qian Ning

Person in Charge : Bai Yang

Date : 2022-03-09



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