Online Inquiry

STR Authentication Report For Cell Line

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1. Cell Name: MRC-5

2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 21- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.

3. Sample gene genotype analysis result:

Genotype analysis results of STR and Amelogenin loci in cells						
STR Loci	STR profile for Sample cell			STR profile for Cell Bank cell		
	Cell name: MRC-5-Y01-Z			Cell name: MRC-5		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	11	14		11	14	
D7S820	10	11		10	11	
D16S539	9	11		9	11	
VWA	15	15		15	15	
TH01	8	8		8	8	
AMEL	X	Y		X	Y	
TPOX	8	8		8	8	
CSF1PO	11	12		11	12	
D12S391	20	22				
FGA	21	23				
D2S1338	20	20				
D21S11	31.2	31.2				
D18S51	15	21				
D8S1179	13	13				

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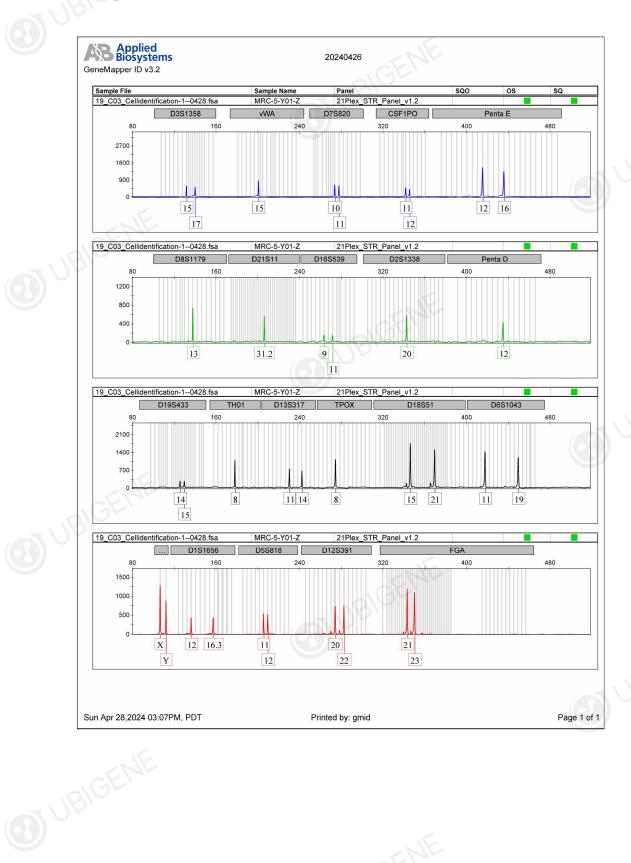|						
D3S1358	15	17				
D6S1043	11	19				
PENTAE	12	16				
D19S433	14	15				
PENTAD	12	12				
D1S1656	12	16.3				

4. Conclusion: The STR results of **MRC-5** cells are consistent with the genotypes of **MRC-5** cell lines in **DSMZ** database, the cell ID corresponded to **CCL-171** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

AB Applied Biosystems
GeneMapper ID v3.2

20240426

Sample File	Sample Name	Panel	SQO	OS	SQ

19_C03_Cellidentification-1--0428.fsa   MRC-5-Y01-Z   21Plex_STR_Panel_v1.2

D3S1358 · vWA · D7S820 · CSF1PO · Penta E

15 / 17 · 15 · 10 / 11 · 11 / 12 · 12 16

19_C03_Cellidentification-1--0428.fsa   MRC-5-Y01-Z   21Plex_STR_Panel_v1.2

D8S1179 · D21S11 · D16S539 · D2S1338 · Penta D

13 · 31.2 · 9 / 11 · 20 · 12

19_C03_Cellidentification-1--0428.fsa   MRC-5-Y01-Z   21Plex_STR_Panel_v1.2

D19S433 · TH01 · D13S317 · TPOX · D18S51 · D6S1043

14 / 15 · 8 · 11 14 · 8 · 15 21 · 11 · 19

19_C03_Cellidentification-1--0428.fsa   MRC-5-Y01-Z   21Plex_STR_Panel_v1.2

... D1S1656 · D5S818 · D12S391 · FGA

X / Y · 12 · 16.3 · 11 / 12 · 20 / 22 · 21 / 23

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