STR Authentication Report For Cell Line

1. Cell Name: CAL-27

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 profile for Sample cell			STR profile for Cell Bank cell		
STR Loci	Cell name: Cal-27			Cell name: CAL-27		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	10	11		10	11	
D7S820	10	10		10	10	
D16S539	11	12		11	12	
VWA	14	17		14	17	
TH01	6	9.3		6	9.3	
AMEL	X	X		X	X	
TPOX	8	8		8	8	
CSF1PO	10	12		10	12	
D12S391	19	20				
FGA	25	25				
D2S1338	23	24				
D21S11	28	29				
D18S51	13	13				
D8S1179	13	15				
D3S1358	16	16				
D6S1043	12	12				

PENTAE	7	7				
D19S433	14	15.2				
PENTAD	9	10				
D1S1656	13	16				

4. Conclusion: The STR results of **CAL-27** cells are consistent with the genotypes of **CAL-27** cell lines in **DSMZ** database, the cell ID corresponded to **446** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

Applied Biosystems
GeneMapper ID v3.2   20240312

Sample File	Sample Name	Panel	SQO	OS	SQ
92_D12_Cellidentification-1-0512.fsa	Cal-27	21Plex_STR_Panel_v1.2			

Panel 1 (blue): D3S1358, vWA, D7S820, CSF1PO, Penta E
- D3S1358: 16
- vWA: 14, 17
- D7S820: 10
- CSF1PO: 10, 12
- Penta E: 7

Panel 2 (green): D8S1179, D21S11, D16S539, D2S1338, Penta D
- D8S1179: 13, 15
- D21S11: 28, 29
- D16S539: 11, 12
- D2S1338: 23, 24
- Penta D: 9, 10

Panel 3 (black): D19S433, TH01, D13S317, TPOX, D18S51, D6S1043
- D19S433: 14, 15.2
- TH01: 6, 9.3
- D13S317: 10, 11
- TPOX: 8
- D18S51: 13
- D6S1043: 12

Panel 4 (red): D1S1656, D5S818, D12S391, FGA
- Amelogenin: X
- D1S1656: 13, 16
- D5S818: 11, 12
- D12S391: 19, 20
- FGA: 25

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