



Cell Genetic Quality Identification Test

Cell Line Authentication Service

STR Genotyping Test Report

Name of test article: Cell line

Testing unit: Cellverse Co., Ltd. (Shanghai)

Reporting date: 2025-09-05



Report Describes

1. This report is only responsible for the samples submitted for inspection.
2. The inspection results and the name of the inspection unit on the inspection report shall not be used for advertising, evaluation and commercial publicity without consent.
3. If you have any objection to this report, please submit it in writing within 15 days from the date of receipt of the report. The overdue acceptance will not be accepted.
4. The copies of the paper inspection report that are altered, added or deleted, or not stamped with the seal of the inspection unit are invalid.



Sample Information

Sample No.:

Customer Sample Number

5637

T24

RT4

J82

Company Number

20250905-01

20250905-02

20250905-03

20250905-04

Sample Size: 4

Sample Character: cell line

Test Item: STR

Inspection Requesting Unit: iCell bioscience Inc

methods: DNA was extracted by Axygen Genome Extraction Kit, amplified by 21-STR amplification protocol, STR loci and sex gene Amelogenin were detected on ABI 3730XL genetic analyzer.



Testing Result

(1) Check the Basic Situation

Company Number	Multi allele gene	Matched Cell Line	Cell Bank	EV Value	Matching Description
20250905-01	None	5637	EXPASY	1.0	perfectly matched
20250905-02	None	T24	EXPASY	1.0	perfectly matched
20250905-03	None	RT4	EXPASY	1.0	perfectly matched
20250905-04	None	J82	EXPASY	1.0	perfectly matched

Sample Genotyping Test Results

- Polyallelic refers to the phenomenon of triallelic or higher genes
- The results of cell typing were good

(2) Description of Each Sample

- 20250905-01: DNA typing of this strain cell line completely matched cell line was found in cell line search. The database of China Academy of Sciences Type Culture Collection showed that the cell name was 5637, and the cell number corresponded to TCHu1. No multi-allele was found in this cell line.

Remark: Cell lines to be tested are identical to those listed in ATCC,DSMZ (DSMZ contains STR data from 2490 cell lines such as ATCC, DSMZ, JCRB and RIKEN),ExpASy Cell Bank (ExpASy contains STR data of approximately 8,000 human cell lines from ATCC, DSMZ, JCRB, ECACC and Riken databases). According to the ATCC Standards Committee identification standard (ANSI/ATCC



ASN-0002-2022), matching degree $EV \geq 80\%$ is considered to be related, possibly derived from common ancestor cells; matching degree 55%-80%, further identification and verification of correlation are required in combination with other methods.

- 20250905-02: DNA typing of the cell line completely matched cell line was found in the cell line search, and the database of the Center for Type Culture Collection of China Academy of Sciences showed that the cell name was T24, and the cell number corresponded to TCHu55. No multiple alleles were found in this cell line.

Remark: Cell lines to be tested are identical to those listed in ATCC,DSMZ (DSMZ contains STR data from 2490 cell lines such as ATCC, DSMZ, JCRB and RIKEN),ExPASy Cell Bank (ExPASy contains STR data of approximately 8,000 human cell lines from ATCC, DSMZ, JCRB, ECACC and Riken databases). According to the ATCC Standards Committee identification standard (ANSI/ATCC ASN-0002-2022), matching degree $EV \geq 80\%$ is considered to be related, possibly derived from common ancestor cells; matching degree 55%-80%, further identification and verification of correlation are required in combination with other methods.

- 20250905-01: DNA typing of this cell line completely matched cell line was found in cell line search. The database of China Academy of Sciences Type Culture Collection showed that the cell name was RT4, and the cell number corresponded to TCHu226. No multi-allele was found in this cell line.

Remark: Cell lines to be tested are identical to those listed in ATCC,DSMZ (DSMZ contains STR data from 2490 cell lines such as ATCC, DSMZ, JCRB and RIKEN),ExPASy Cell Bank (ExPASy contains STR data of approximately 8,000 human cell lines from



ATCC, DSMZ, JCRB, ECACC and Riken databases). According to the ATCC Standards Committee identification standard (ANSI/ATCCASN-0002-2022), $EV \geq 80\%$ is considered to be related and may be derived from common ancestral cells; matching degree between 55% and 80% requires further identification in combination with other methods.

- 20250905-01: DNA typing of the cell line completely matched cell line was found in the cell line search. The database of the Center for Type Culture Collection of China Academy of Sciences showed that the cell name was J82, and the cell number corresponded to TCHu218. No multiple alleles were found in this cell line.

Remark: Cell lines to be tested are identical to those listed in ATCC, DSMZ (DSMZ contains STR data from 2490 cell lines such as ATCC, DSMZ, JCRB and RIKEN), ExPASy Cell Bank (ExPASy contains STR data of approximately 8,000 human cell lines from ATCC, DSMZ, JCRB, ECACC and Riken databases). According to the ATCC Standards Committee identification standard (ANSI/ATCCASN-0002-2022), $EV \geq 80\%$ is considered to be related and may be derived from common ancestral cells; matching degree between 55% and 80% requires further identification in combination with other methods.



(3) Sample typing results

Genotyping results of STR and Amelogenin loci in cell 20250905-01						
Loci	STR information of test cells			Cell bank Cell STR information		
	Name of test cell: 5637			Cell Bank Cell Name: 5637		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
Amelogenin	X	Y		X	Y	
CSF1PO	11			11		
D1S1656	15			15		
D2S1338	25			25		
D3S1358	15	17		15	17	
D5S818	11	12		11	12	
D6S1043	16	20		16	20	
D7S820	10	11		10	11	
D8S1179	10	16		10	16	
D12S391	20			20		
D13S317	11			11		
D16S539	9			9		
D18S51	16	18		16	18	
D19S433	13	15		13	15	
D21S11	36			36		
FGA	22			22		
Penta D	11			11		
Penta E	10	12		10	12	
TH01	7	9		7	9	
TPOX	8	9		8	9	
vWA	16	18		16	18	



Genotyping results of STR and Amelogenin loci in cell 20250905-02

Loci	STR information of test cells			Cell bank Cell STR information		
	Name of test cell: T24			Cell Bank Cell Name: T24		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
Amelogenin	X			X		
CSF1PO	10	12		10	12	
D1S1656	12	15		12	15	
D2S1338	20	23		20	23	
D3S1358	16			16		
D5S818	10	12		10	12	
D6S1043	11			11		
D7S820	10	11		10	11	
D8S1179	9	14		9	14	
D12S391	17	18		17	18	
D13S317	9	12		9	12	
D16S539	9			9		
D18S51	16	18		16	18	
D19S433	13	14		13	14	
D21S11	29			29		
FGA	17	22		17	22	
Penta D	11	15		11	15	
Penta E	7	10		7	10	
TH01	6			6		
TPOX	8	11		8	11	
vWA	17	19		17	19	



Genotyping results of STR and Amelogenin loci in cell 20250905-03

Loci	STR information of test cells			Cell bank Cell STR information		
	Name of test cell: RT4			Cell Bank Cell Name: RT4		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
Amelogenin	X	Y		X	Y	
CSF1PO	10	12		10	12	
D2S1338	18	19		18	19	
D3S1358	15			15		
D5S818	11	12		11	12	
D7S820	9	12		9	12	
D8S1179	13	15		13	15	
D13S317	8			8		
D16S539	9			9		
D18S51	15	17		15	17	
D19S433	13			13		
D21S11	30	32.2		30	32.2	
FGA	22	24		22	24	
Penta D	12	13		12	13	
Penta E	7	10		7	10	
TH01	9	9.3		9	9.3	
TPOX	8	11		8	11	
vWA	14	17		14	17	



Genotyping results of STR and Amelogenin loci in cell 20250905-04

Loci	STR information of test cells			Cell bank Cell STR information		
	Name of test cell: J82			Cell Bank Cell Name: J82		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
Amelogenin	X	Y		X	Y	
CSF1PO	10	11		10	11	
D2S1338	19			19		
D3S1358	16	18		16	18	
D5S818	12	13		12	13	
D7S820	9	11		9	11	
D8S1179	8	13		8	13	
D13S317	10	12		10	12	
D16S539	11	12		11	12	
D18S51	10	12		10	12	
D19S433	12	13		12	13	
D21S11	30	31		30	31	
FGA	20	24		20	24	
Penta D	9	13		9	13	
Penta E	12	15		12	15	
TH01	9.3			9.3		
TPOX	11	12		11	12	
vWA	17	18		17	18	



Other Explanatory

(1) STR database alignment

If the cells to be tested are not included in the international or domestic cell bank or are new cell lines established by themselves, they cannot be compared. Users need to compare their control reference data according to the cell typing results, or provide them to us for assistance in analysis.

(2) Literature citations References

ATCC SDO. 2011. ASN-0002. Authentication of Human Cell Lines: Standardization of STR Profiling. ANSI eStandards Store, by ATCC-Standards Development Organization (SDO).
<https://webstore.ansi.org/standards/atcc/ansiatccasn00022011>.

Accessed: September, 2021.

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