



CELL LINE AUTHENTICATION REPORT

Allele Table

Locus	BJ	CELLOSAURUS Reference BJ [Human fibroblast] (RRID:CVCL_3653)
Amelogenin	X	X
CSF1PO	10,12	10,12
D13S317	8,9	8,9
D16S539	9,13	9,13
D21S11	28,29	NO DATA
D5S818	12	12
D7S820	11,12	11,12
TH01	7,8	7,8
TPOX	10,11	10,11
vWA	16,18	16,18

The submitted sample profile is human, but not a match for any profile in the CELLOSAURUS STR database.

The submitted profile is an exact match for the following CELLOSAURUS human cell line(s) in the CELLOSAURUS STR database (8 core loci plus Amelogenin): **BJ [Human fibroblast] (RRID:CVCL_3653)**

The submitted profile is similar to the following CELLOSAURUS human cell line(s).

The submitted cell line is contaminated, and has tested positive for mouse marker.

Interpretation

The samples provided exhibit identical genetic profiles.

Sample BJ shares 15 alleles of 15 alleles (100.0%) with the CELLOSAURUS Reference.

Allele Table

Locus	VK2	ATCC Reference CRL-2616(VK2)
Amelogenin	X	X
CSF1PO	10,11	10,11
D13S317	9,12	9,12
D16S539	9	9
D21S11	29,31.2	NO DATA
D5S818	9,10	9,10
D7S820	10,11	10,11
TH01	7,9.3	7,9.3
TPOX	11	11
vWA	16	16

The submitted sample profile is human, but not a match for any profile in the ATCC STR database.

The submitted profile is an exact match for the following ATCC human cell line(s) in the ATCC STR database (8 core loci plus Amelogenin): **CRLR 2616(VK2)**

The submitted profile is similar to the following ATCC human cell line(s).

The submitted cell line is contaminated, and has tested positive for mouse marker.

Interpretation

The sample provided exhibits identical genetic profiles.

Sample MRC5 shares 13 alleles of 13 alleles (100.0 %) with the ATCC reference.

Explanation of Test Results

Cell lines with $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. A cell line with an STR profile match of $\leq 56\%$ is considered unrelated. A unique cell line has a STR profile that is different from another unique cell line.

STR typing was performed using the Promega GenePrint 10 System™. The kit includes 10 human specific loci for human cell line authentication. The human loci collectively provide a genetic profile with a random match probability of 1 in 2.92×10^9 . Where more than one human profile is observed, alleles of the minor contributor are indicated in parentheses.

. Our laboratory uses GenePrint® 5X Mouse Primer Pair Mix is designed to be used as a sensitive marker that specifically detects the presence of mouse (*Mus musculus*) DNA while simultaneously providing detection of about 1% fraction of mouse contaminant in a human cell line when using extracted DNA.

Report Date: 11/07/2016

Sample (s) received Date: 11/04/2016

Name of Requester: Steven Smith

Cell Line ID: A2EN P62

Biopolymer Lab Order: GCF-SS-1050

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RESEARCH USE ONLY

Allele Table

Locus	A2EN P62
Amelogenin	X
CSF1PO	12,13
D13S317	9,13
D16S539	9,11
D21S11	29,32.2
D5S818	11,13
D7S820	11
TH01	6
TPOX	8,11
vWA	17

Interpretation

Sample SS-A2EN P62 did not match with any ATCC Reference.

Explanation of Test Results

Cell lines with $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. A cell line with an STR profile match of $\leq 56\%$ is considered unrelated. A unique cell line has a STR profile that is different from another unique cell line.

- The submitted sample profile is human, but not a match for any profile in the ATCC STR database.
- The submitted profile is an exact match for the following ATCC human cell line(s) in the ATCC STR database (8 core loci plus Amelogenin):
- The submitted profile is similar to the following ATCC human cell line(s).
- The submitted cell line is contaminated, and has tested positive for mouse marker.

STR typing was performed using the Promega Geneprint 10 System™. The kit includes 10 human specific loci for human cell line authentication. The human loci collectively provide a genetic profile with a random match probability of 1 in 2.92×10^9 . Where more than one human profile is observed, alleles of the minor contributor are indicated in parentheses. Our laboratory uses GenePrint® 5X Mouse Primer Pair Mix is designed to be used as a sensitive marker that specifically detects the presence of mouse (*Mus musculus*) DNA while simultaneously providing detection of about 1% fraction of mouse contaminant in a human cell line when using extracted DNA.

Fig. S5. Validation certificate for A2EN, VK2 and BJ cell lines.