



Cell Line Authentication Report

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Cell Line Authentication Report

Customer: JiangLin

Institution: Xin Hua Hospital Affiliated to ShangHai Jiao Tong University School of Medicine

Quotation Number: HJ1601121

Completion Date: 02/04/2016

1. Sample ID: NOZ

2. Original Material: Cell pellets

3. Methods:

1). Genomic DNA was extracted from the cell pellets provided by the customer.

2). Samples, together with positive and negative control were amplified using GenePrint 10 System (Promega).

3). Amplified products were processed using the ABI3730xl Genetic Analyzer.

4). Data were analyzed using GeneMapper4.0 software and then compared with the ATCC, DSMZ or JCRB databases for reference matching.

4. Results:

1) 10 Loci STR Profile:

Genetic Site	ATCC		Customer sample	
(Locus)	NOZ		NOZ	
Amelogenin	X		X	
CSF1PO	11	13	11	13
D13S317	8	12	8	12
D16S539	9	11	9	11
D5S818	11	13	11	13
D7S820	10	11	10	11
THO1	7	9	7	9
TPOX	8	11	8	11
vWA	19		19	
D21S11			30	31
Percent match between the sample and the database				

profile: 100%

Summary:

- 1) Your cell line is considered to be “identical” to the reference cell line in the ATCC STR database, as the STR profile yields a 100% match.

Notes:

1. $P=100\% \times (2 \times M)/N$; $M=16$, $N=32$ $P=100\% \times (2 \times 16)/32=100\%$

M: number of the matching peaks; N: number of all peaks

2. Based on the ANSI Standard, cell lines with $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

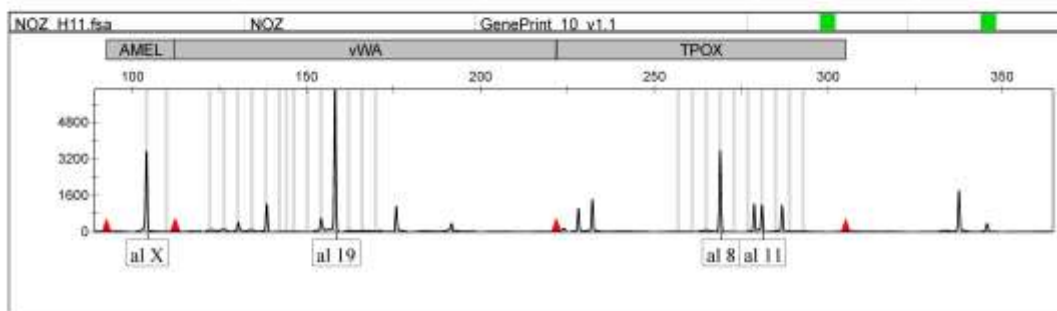
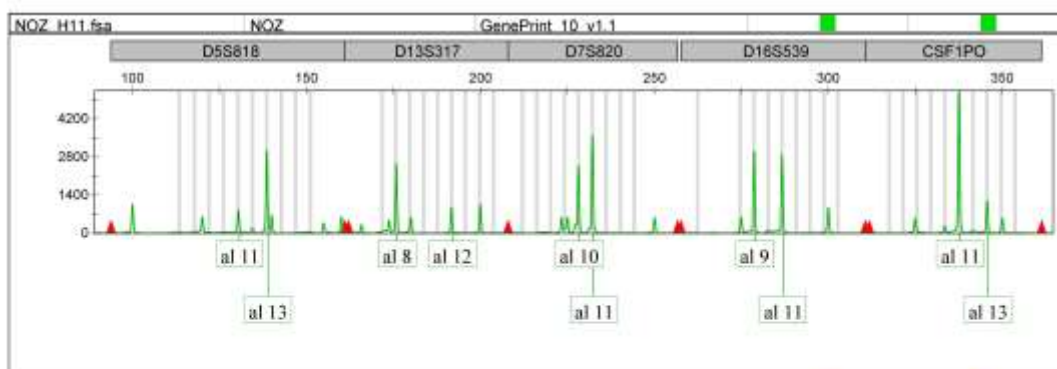
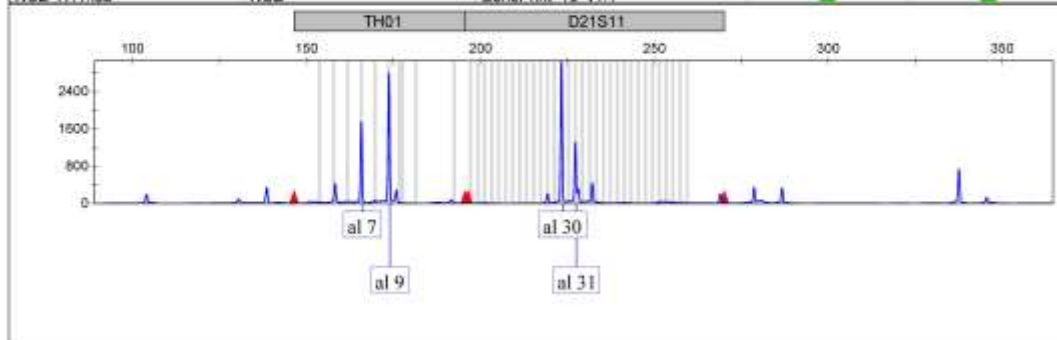
3. The short tandem repeat (STR) profile generated by GENEWIZ Inc. is indicative only of the sample sent to GENEWIZ Inc. at the time it was sent. This data and analysis are for research use only.

2) Electrophoretogram

AB Applied Biosystems
GeneMapper 4.0

BJ11458

Sample File	Sample Name	Panel	DS	SQ
NOZ_H11.fsa	NOZ	GenePrint 10_v1.1	■	■



Note: Raw data in appendix



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Cell Line Authentication Report

Customer: JiangLin

Institution: Xin Hua Hospital Affiliated to Shanghai Jiao Tong University School of Medicine

Quotation Number: GWBJYJ15121801

Completion Date: 12/30/2015

1. Sample ID: OCUG-1

2. Original Material: Cell pellets

3. Methods:

1). Genomic DNA was extracted from the cell pellets provided by the customer.

2). Samples, together with positive and negative control were amplified using GenePrint 10 System (Promega).

3). Amplified products were processed using the ABI3730xl Genetic Analyzer.

4). Data were analyzed using GeneMapper4.0 software and then compared with the ATCC, DSMZ or JCRB databases for reference matching.

4. Results:

1) 10 Loci STR Profile:

Genetic Site (Locus)	JCRB		Customer sample	
	OCUG-1		OCUG-1	
Amelogenin	X		X	
CSF1PO	10	12	10	12
D13S317	8	11	8	11
D16S539	9	13	9	13
D5S818	10	12	10	12
D7S820	10	11	10	11
TH01	7	?	7	9.3
TPOX	8	11	8	11
vWA	?	15	16	
D21S11			28	29
Percent match between the sample and the database				

profile: 88.2%

Summary:

- 1) Your cell line is considered “related” to the reference cell line in the ATCC STR database, as the STR profile yields matches that are $\geq 80\%$ but less than 100%.

Notes:

1. $P=100\% \times (2 \times M)/N$; $M=15$, $N=34$ $P=100\% \times (2 \times 15)/34=88.2\%$

M: number of the matching peaks; N: number of all peaks

2. Based on the ANSI Standard, cell lines with $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

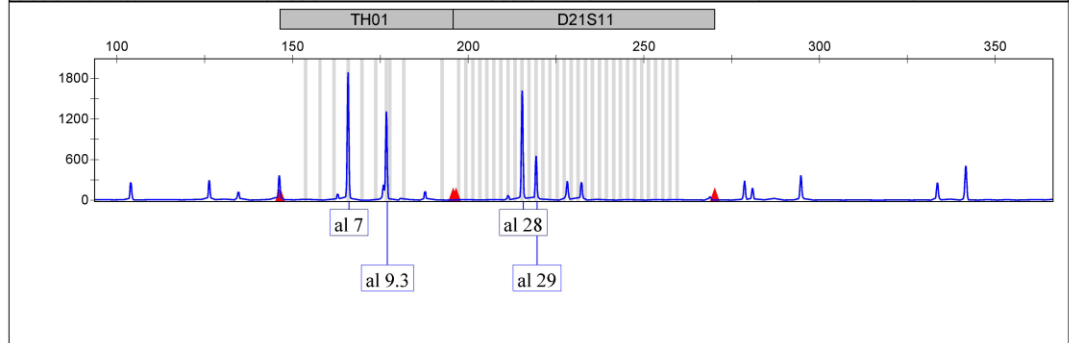
3. The short tandem repeat (STR) profile generated by GENEWIZ Inc. is indicative only of the sample sent to GENEWIZ Inc. at the time it was sent. This data and analysis are for research use only.

2) Electrophoretogram

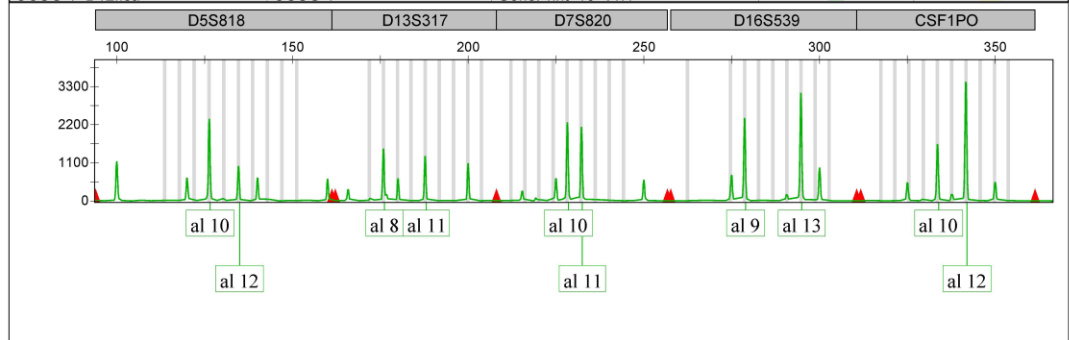
AB Applied Biosystems
GeneMapper 4.0

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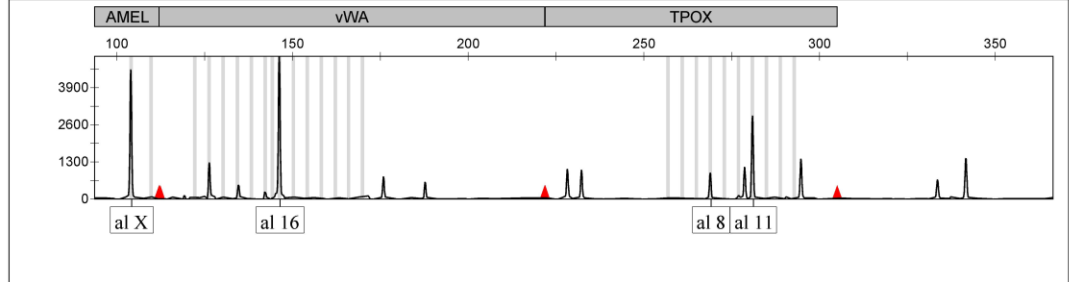
Sample File	Sample Name	Panel	OS	SQ
OCUG-1_D12.fsa	OCUG-1	GenePrint 10 v1.1	■	▲



Sample File	Sample Name	Panel	OS	SQ
OCUG-1_D12.fsa	OCUG-1	GenePrint 10 v1.1	■	▲



Sample File	Sample Name	Panel	OS	SQ
OCUG-1_D12.fsa	OCUG-1	GenePrint 10 v1.1	■	▲



Note: Raw data in appendix