

# Cell line Authentication Report

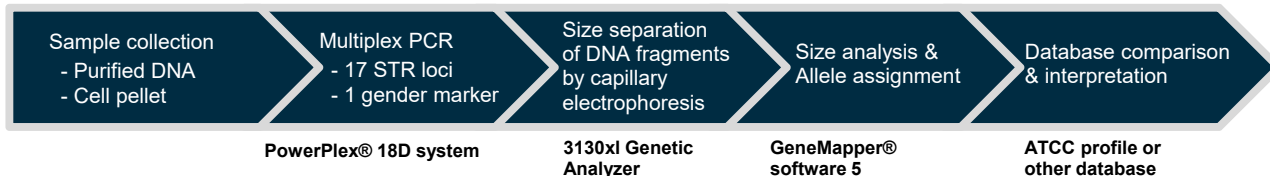
## Customer Information

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 Order date 2020.04.14  
 Report date 2020.04.22

## Sample Information

Sample No.	Sample name	Sample type	Reference profile
1	THLE-2	Purified DNA	THLE-2 (ATCC CRL-2706)
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

## STR Profiling Workflow



## Data Interpretation

Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Reid et al., Authentication of Human Cell Lines by STR DNA Profiling Analysis. Assay Guidance Manual [Internet], 2013 May 1 published by NCBI. The match criterion is based on an algorithm that compares the number of shared alleles between the reference and sample profile.

$$\% \text{ Match} = \frac{\text{Number of shared alleles}}{\text{Total number of alleles in the reference database profile}}$$

\* Homozygous alleles are counted as one allele

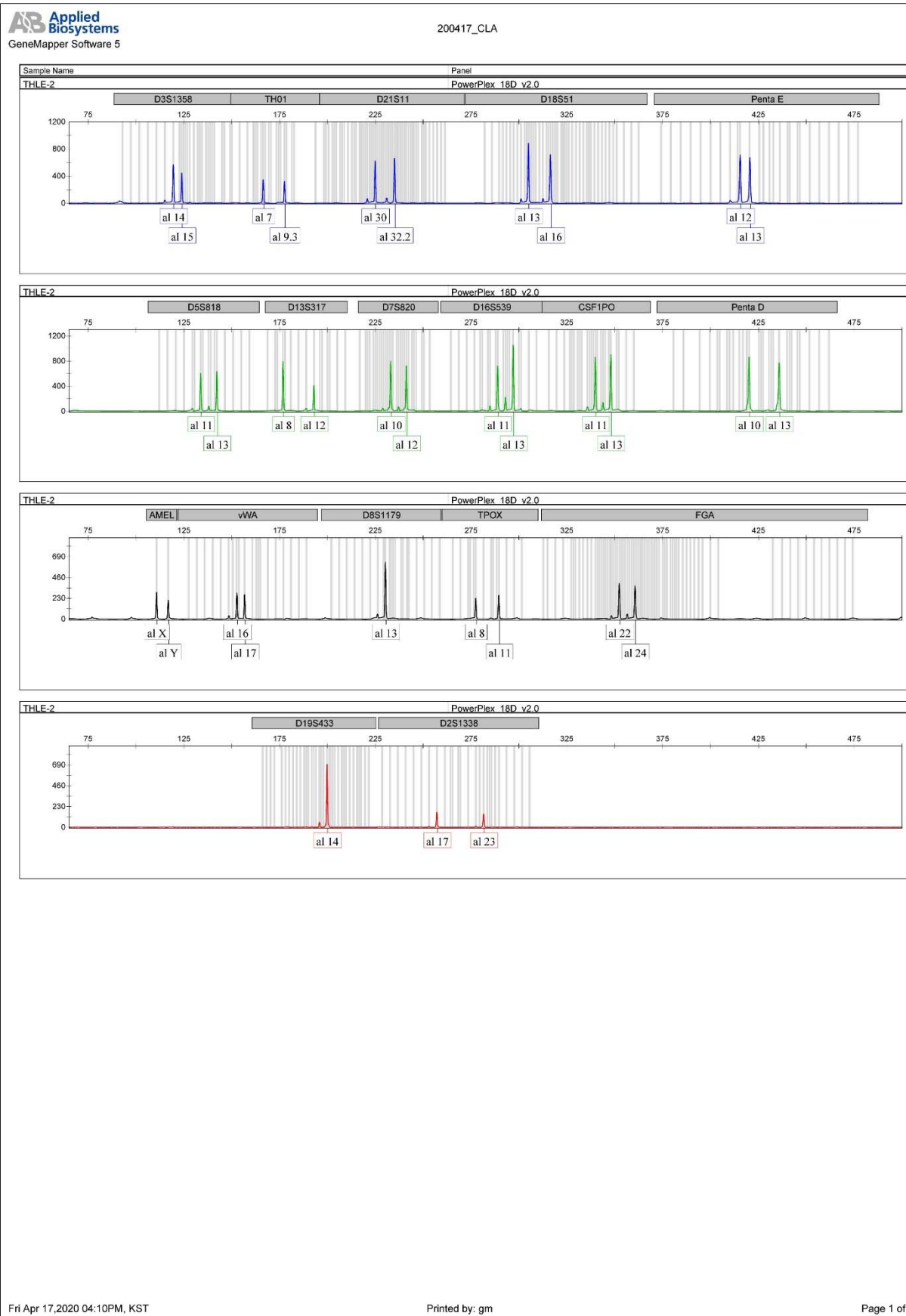
Lowest % Match	Result interpretation
≥ 80%	This result is consistent with the two samples being <b>related</b> (same donor)
56-79%	This result is <b>indeterminant</b> and may need further testing
≤ 55%	This result is consistent with the two samples being <b>unrelated</b> (different donors)

Sample No. 1

**Match Analysis**

Locus	Reference Database Profile		Sample Profile		Shared alleles #
	Database : THLE-2 (ATCC CRL-2706)		Sample Name : THLE-2		
D5S818	11	13	11	13	2
D13S317	8	12	8	12	2
D7S820	10	12	10	12	2
D16S539	11	13	11	13	2
vWA	16	17	16	17	2
TH01	7	9.3	7	9.3	2
TPOX	8	11	8	11	2
CSF1PO	11	13	11	13	2
AMEL	X	Y	X	Y	2
D3S1358			14	15	-
D21S11			30	32.2	-
D18S51			13	16	-
D8S1179			13		-
FGA			22	24	-
D2S1338			17	23	-
D19S433			14		-
Penta D			10	13	-
Penta E			12	13	-
Number of shared alleles					18
Total number of alleles in the reference database profile					18
% match					100.0%
<b>Result interpretation</b>					<b>Related</b>

Sample No. 1  
Electropherogram



# Service Report

## [Mycoplasma Detection Service]

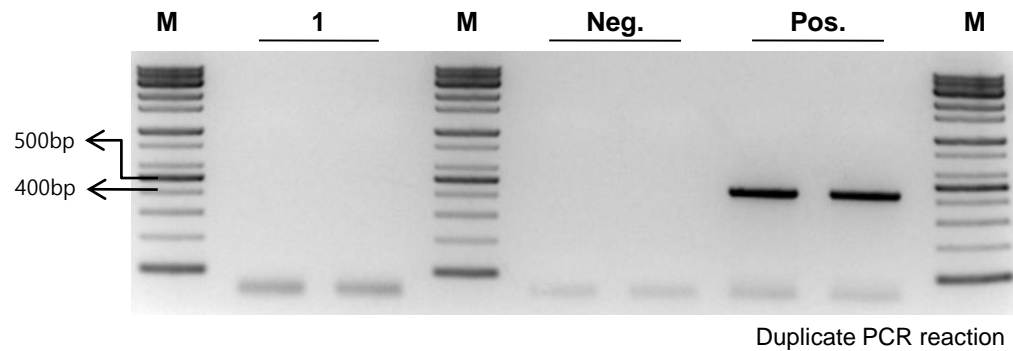
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2020. 04. 17

(주) 코스모진텍

# PCR

1. 접수 일자 : 2020년 04월 14일
2. 샘플수량 : 1 cell supernatant
3. PCR & 전기영동



## 4. 결과 보고

No.	Sample name	Cell Line	PCR results	Sequencing & BLAST
1	THLE-2	THLE-2	-	