

Sample Submitted By: Dr. Peiquan Zhao
Xinhua Hospital, Shanghai Jiao Tong University School of Medicine
Email Address: zhaopeiquan@xinhumed.com.cn
Sales Order: 180627A
Cell Line Designation: 293
Date Sample Received: Jun 27th, 2018
Report Date: Jun 28th, 2018

Methodology: Nineteen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available EX20 Kit from AGCU. The cell line sample was processed using the ABI Prism® 3500 Genetic Analyzer. Data were analyzed using GeneMapper® ID-X v1.4 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

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 Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

GTB™ performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.
There are no warranties with respect to the services or results supplied, express or implied, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. Genetic Testing Biotechnology (GTB) is not liable for any damages or injuries resulting from receipt and/or improper, inappropriate, negligent or other wrongful use of the test results supplied, and/or from misidentification, misrepresentation, or lack of accuracy of those results. Your exclusive remedy against GTB and those supplying materials used in the services for any losses or damage of any kind whatsoever, whether in contract, tort, or otherwise, shall be, at GTB's option, refund of the fee paid for such service or repeat of the service.

The GTB™ is a registered trademark of Genetic Testing Biotechnology Corporation (Suzhou).

Technical Questions?
GTB Technical Support
+86-512-62806339
service@jsdna.org
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Ordering Questions?
order@jsdna.org
GTB Corporation
+86-512-62806339
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Test Results for Submitted Sample			DSMZ Reference Database Profile			
Loc	Query Profile: 293		Database Profile: 293			
Amelogenin	X		X			
D3S1358	15	17				
D13S317	12	14	12	14		
D7S820	11	12	11	12		
D16S539	9		9			
Penta E	7	15				
TPOX	11		11			
TH01	7	9.3	7	9.3		
D2S1338	19					
CSF1PO	11	12	11	12		
Penta D	9	10				
D19S433	18					
vWA	16	19	16	19		
D21S11	28	30.2				
D18S51	18					
D6S1043	11					
D8S1179	12	14				
D5S818	8	9	8	9		
D12S391	19	21				
FGA	23					

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (8 core STR loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.

Explanation of Test Results

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.

- The submitted sample profile is human, but not a match for any profile in the DSMZ STR database.
- The submitted profile is an exact match for the following human cell line(s) in the DSMZ STR database (8 core loci plus Amelogenin): 293
- The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature Technician:



e-Signature Reviewer:

Digitally signed by Faye Wong
 DN: cn=Faye Wong, o=Genetic Testing Biotechnology (Suzhou), ou=DNA Typing Section, email=order@jtdna.org, c=CN
 Date: 2018.06.28 16:23:22 +08'00'

Digitally signed by Alan Cui
 DN: cn=Alan Cui, o=Genetic Testing Biotechnology (Suzhou), ou=Supervision Section, email=service@jtdna.org, c=CN
 Date: 2018.06.28 16:23:36 +08'00'



More information

Addendum: Electropherogram for the customer's sample set 1 of 1

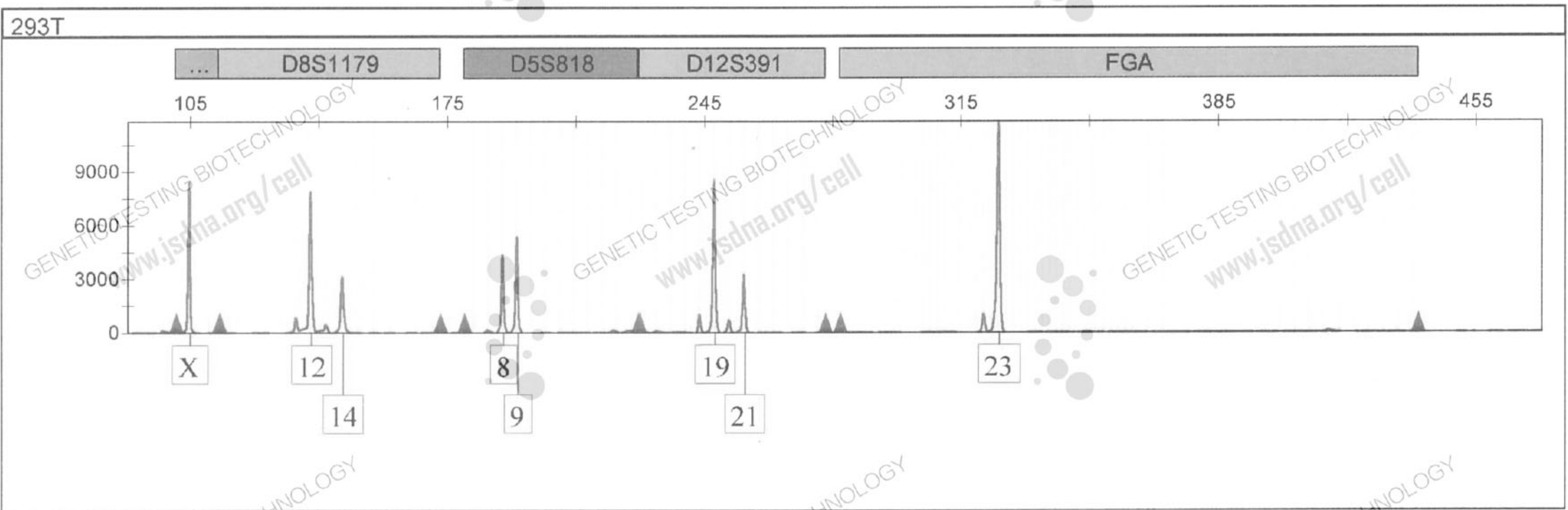
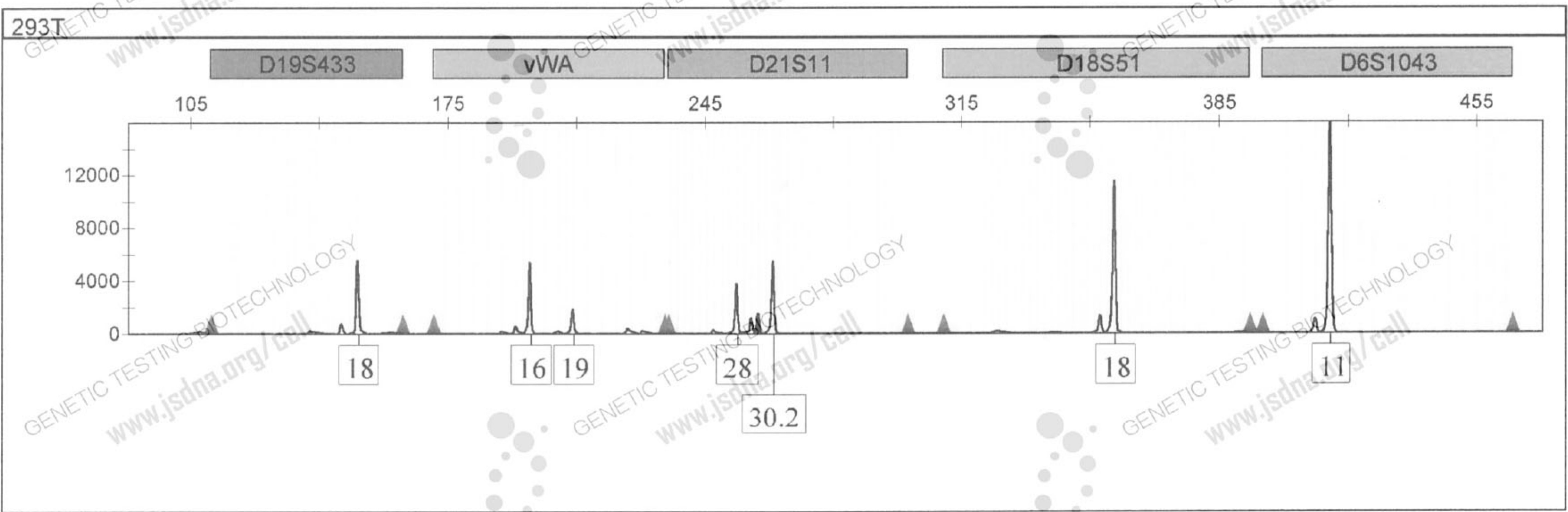
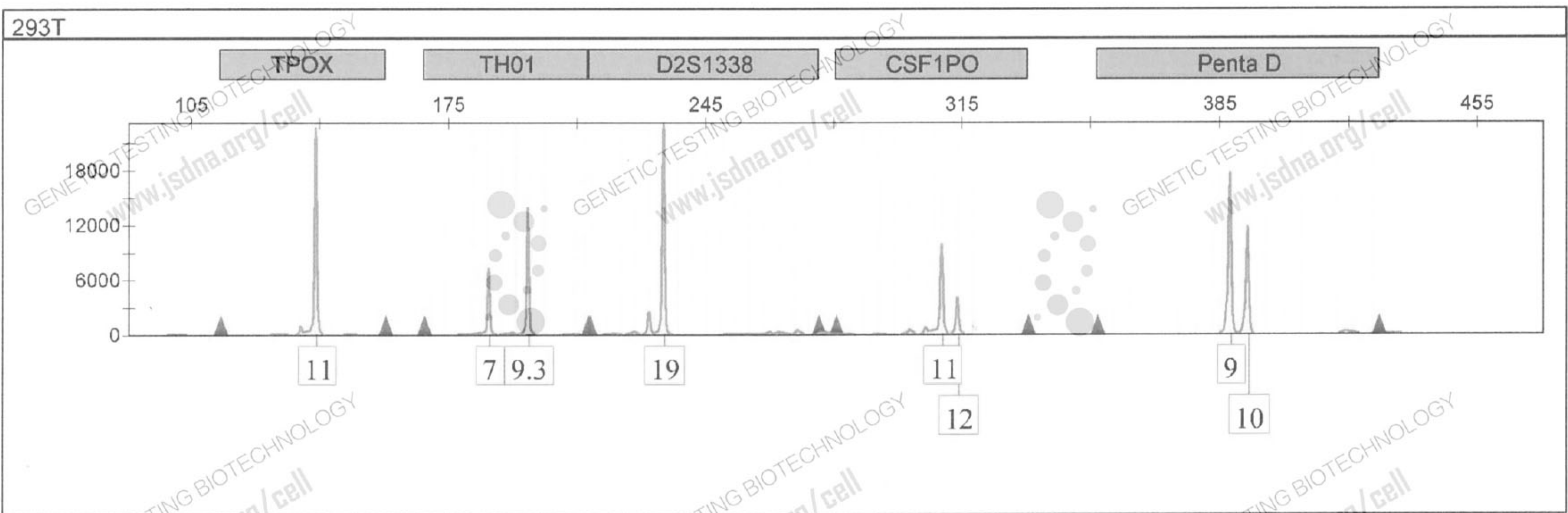
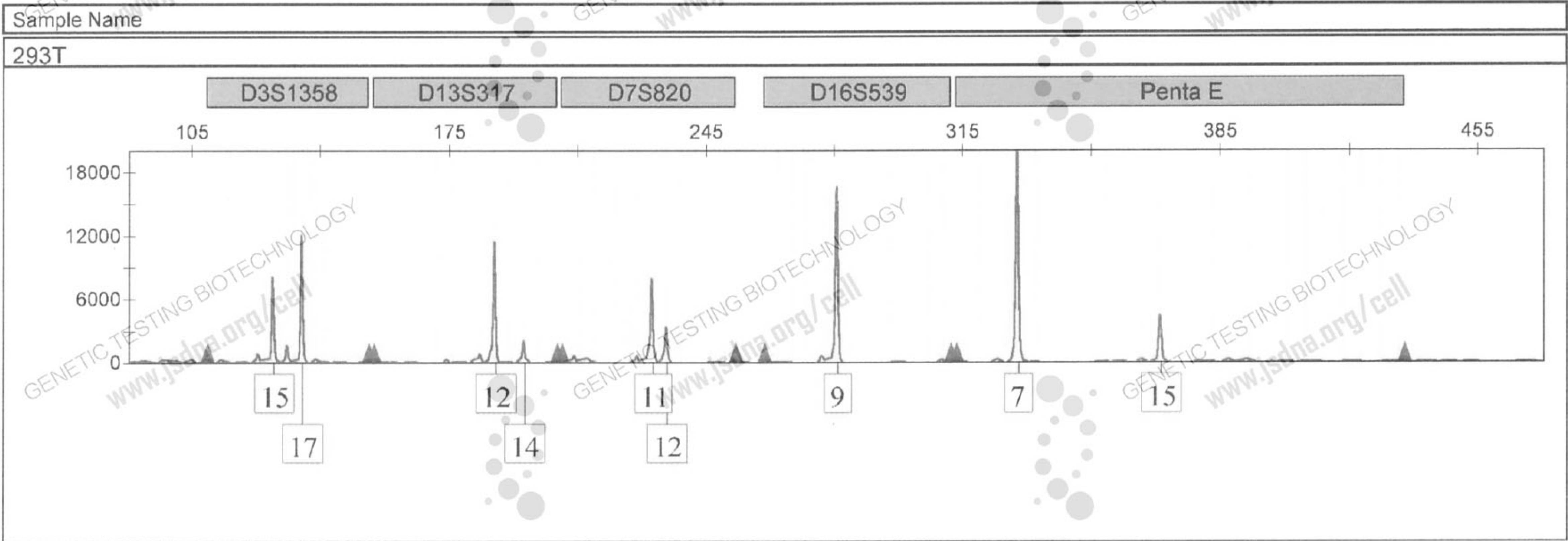


Cell Line Authentication Service

STR Profile Report

AB Applied Biosystems
GeneMapper® ID-X 1.4

Project: 180628





CERTIFICATE OF ANALYSIS

ACBRI 181 Human Retinal Microvascular Endothelial Cells

Donor A: Male

Lot 181.05.01.02.02

Primary Human Retinal Microvascular Endothelial Cells are non-hazardous, non-toxic, non-infectious human cells for laboratory research purposes only. Cells are obtained and isolated in the USA. **Cell vials should be stored in liquid nitrogen conditions immediately upon receipt. Please follow Cell Systems optimized protocols for thawing and passaging.**

Donor Tests	Result
HIV Serologic Test (donor)	Negative
HIV PCR Test (frozen cells)	Negative
Hepatitis B (HBV) PCR Test (frozen cells)	Negative
Hepatitis C (HCV) PCR Test (frozen cells)	Negative
STR Profile Test by American Type Culture Collection (ATCC)	“The submitted sample is human, but not a match for any profile in the ATCC STR database.”

Retail Production (P3) Tests	Result
Bacterial Sterility (culture method) by independent lab	PASS
Fungal Sterility (culture method) by independent lab	PASS
Mycoplasma Sterility (culture method) by independent lab	PASS

Cell Markers and Functional Tests	Result
CD31	> 95% positive
von Willebrand Factor	> 95% positive
Uptake of Di-I-Ac-LDL	> 95% positive

Cell Vial Metrics	Result
Cell Count	1,430,000 cells/vial
Cell Viability	92 %
Viable Cell Count	1,315,600 viable cells/vial
Time to Confluence	4 days if 1 vial seeded in T75 flask