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Cell Line Authentication

Client : Jun Arai

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Analysis conducted by *Katsunori Imai*

Sample :

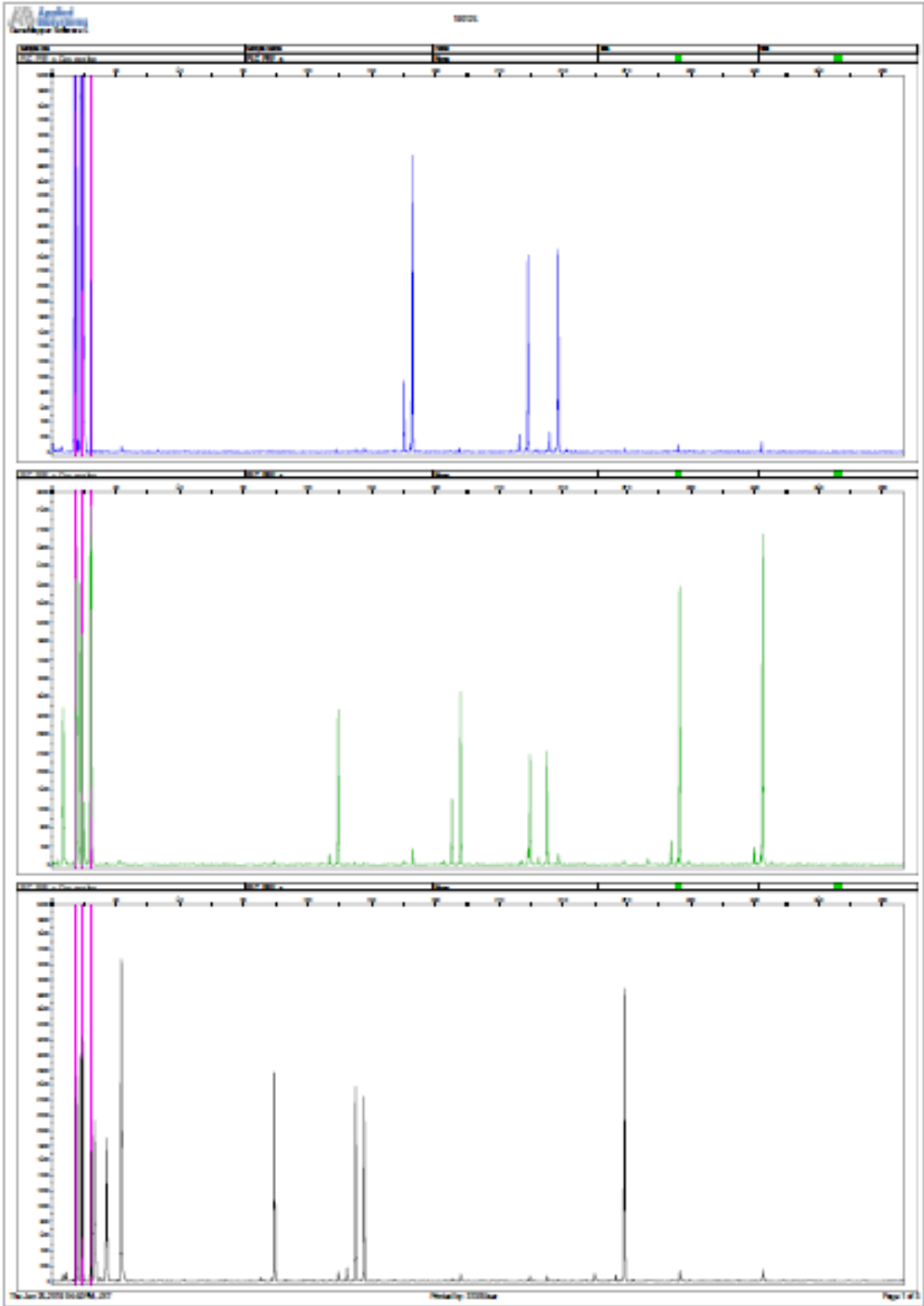
1. PLC/PRF/5
2. HepG2

Reagent:

GenePrint[®] 10 System (Promega)

Result:

1. PLC/PRF/5



STR Profile

Locus	PLC/PRF/5		PLC/PRF/5 (ATCC® CRL-8024™)	
TH01	7	8	8	
D21S11	30	33.2	–	–
D5S818	12		12	
D13S317	11	12	11	12
D7S820	9	11	9	11
D16S539	13		13	
CSF1PO	10		10	
AMEL	X		X	
vWA	15	16	15	16
TPOX	8		8	

STR profiles of PLC/PRF/5 were not completely matched with PLC/PRF/5 (ATCC® CRL-8024™). But Evaluation value (EV) between PLC/PRF/5 and PLC/PRF/5 (ATCC® CRL-8024™) was 0.96, which was high enough that STR profiles of PLC/PRF/5 are the same as those of PLC/PRF/5 (ATCC® CRL-8024™).

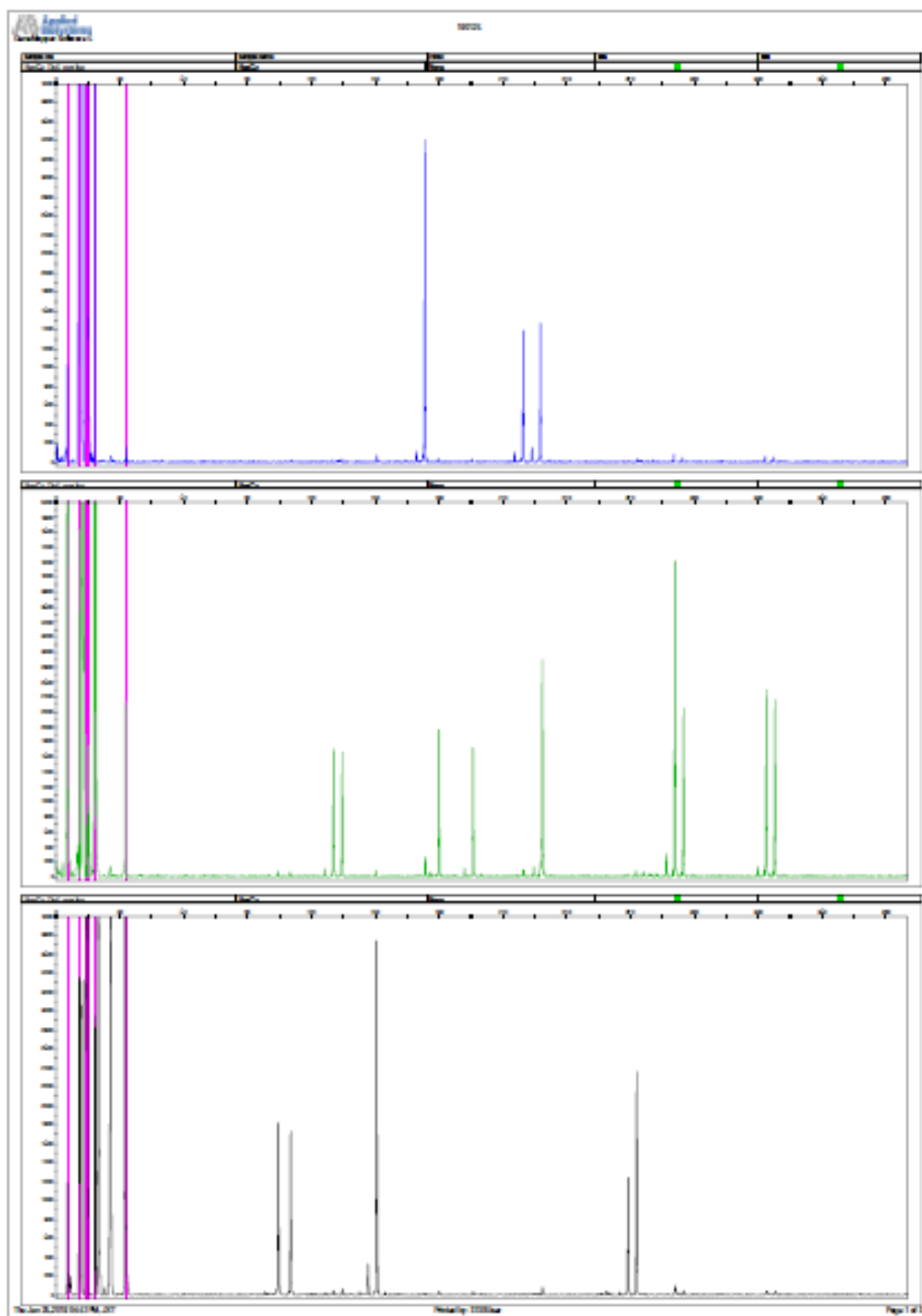
Therefore two cell lines were considered to be the identical cell strain.

Reference:

Cell line individualization by STR multiplex system in the cell bank found cross-contamination between ECV304, and EJ-1/T24. Tissue Culture Research Communications, 18:329–338(1999)

Tanabe, H., Takada, Y., Minegishi, D., Kurematsu, M. Masui, T., and Mizusawa, H.

2. HepG2



STR Profile

Locus	HepG2		Hep G2 [HEPG2] (ATCC® HB-8065™)	
TH01	9		9	
D21S11	29	31	–	–
D5S818	11	12	11	12
D13S317	9	13	9	13
D7S820	10		10	
D16S539	12	13	12	13
CSF1PO	10	11	10	11
AMEL	X	Y	X	Y
vWA	17		17	
TPOX	8	9	8	9

STR profiles of HepG2 and Hep G2 [HEPG2] (ATCC® HB-8065™) were completely matched. It was verified that the cells analyzed were considered to be the same as the cells registered in ATCC by comparison with the database of ATCC.