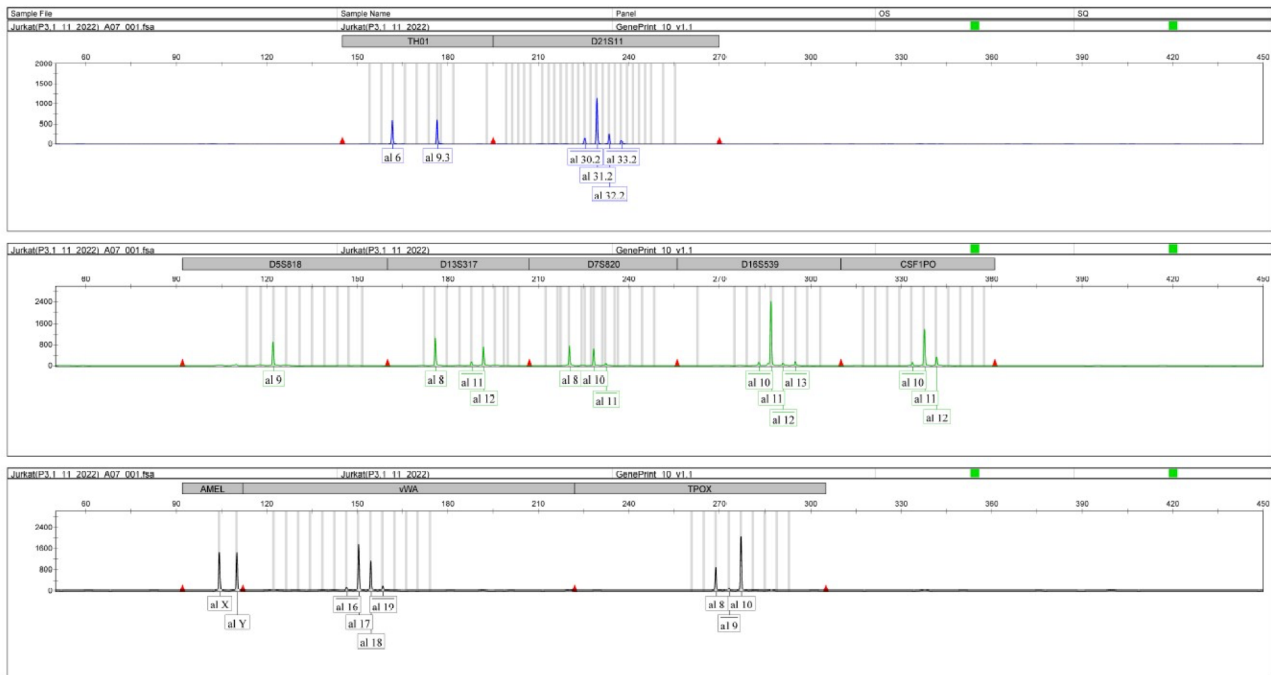


Sample : Jurkat (P3, 1/11/2022)

GeneMapper Software 5



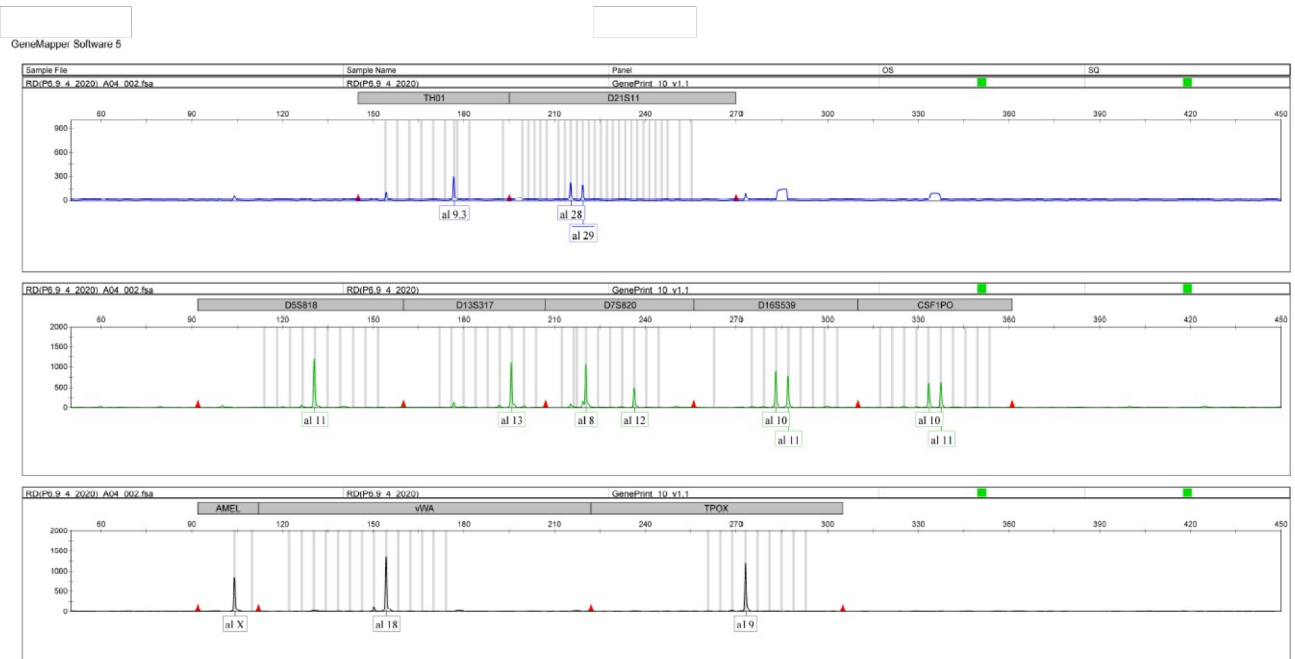
STR Profile

Locus	Jurkat (P3, 1/11/2022)			
TH01	6	9.3		
D21S11	30.2	31.2	32.2	33.2
D5S818	9			
D13S317	8	11	12	
D7S820	8	10	11	
D16S539	10	11	12	13
CSF1PO	10	11	12	
AMEL	X	Y		
vWA	16	17	18	19
TPOX	8	9	10	

Jurkat (CVCL_0065)			
	6	9.3	
	31.2	32.2	
	9		
	8	11	12
	8	10	11
	11		
	11		
	X	Y	
	16	17	18
	8	10	

STR profiles of Jurkat (P3, 1/11/2022) were not completely matched with Jurkat (CVCL_0065). But Evaluation value (EV) between Jurkat (P3, 1/11/2022) and Jurkat (CVCL_0065) was 0.82, which was high enough that STR profiles of Jurkat (P3, 1/11/2022) are the same as those of Jurkat (CVCL_0065). Therefore two cell lines were considered to be the identical cell strain.

Sample : RD (P6, 9/4/2020)

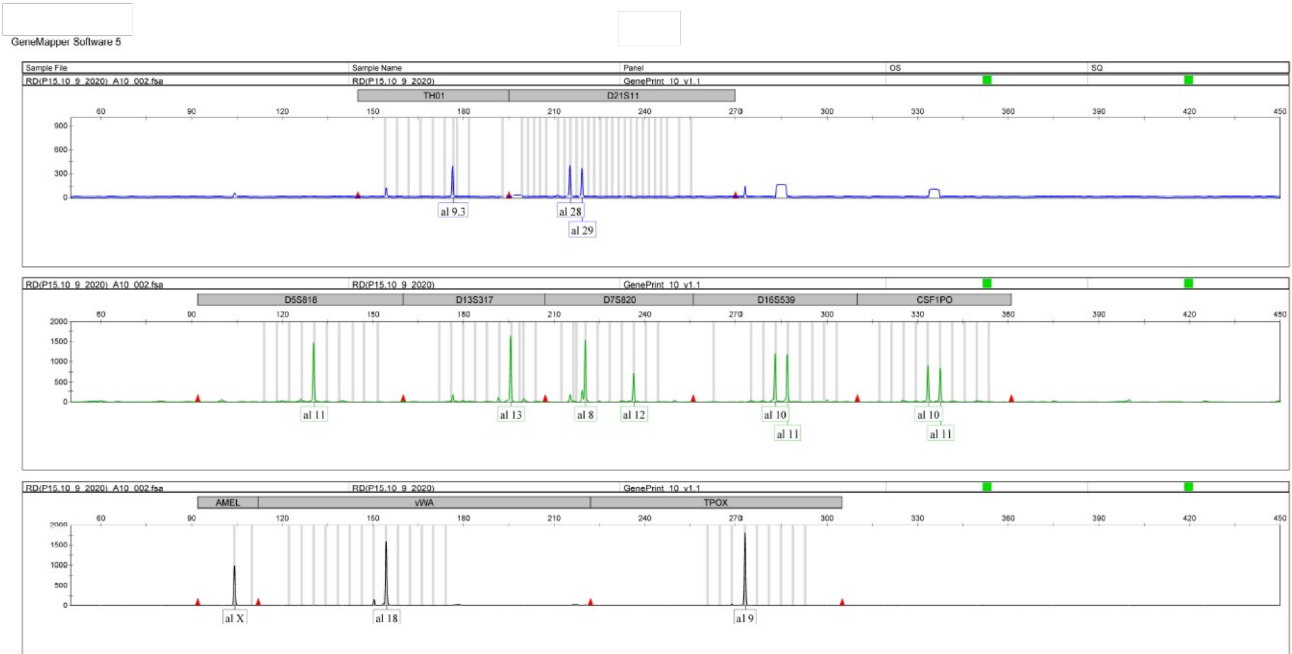


STR Profile

Locus	RD (P6, 9/4/2020)		RD (ATCC CCL-136)	
TH01	9.3		9.3	
D21S11	28	29	-	-
D5S818	11		11	
D13S317	13		13	
D7S820	8	12	8	12
D16S539	10	11	10	11
CSF1PO	10	11	10	11
AMEL	X		X	
vWA	18		18	
TPOX	9		9	

STR profiles of RD (P6, 9/4/2020) and RD (ATCC CCL-136) 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.

Sample : RD (P15, 10/9/2020)

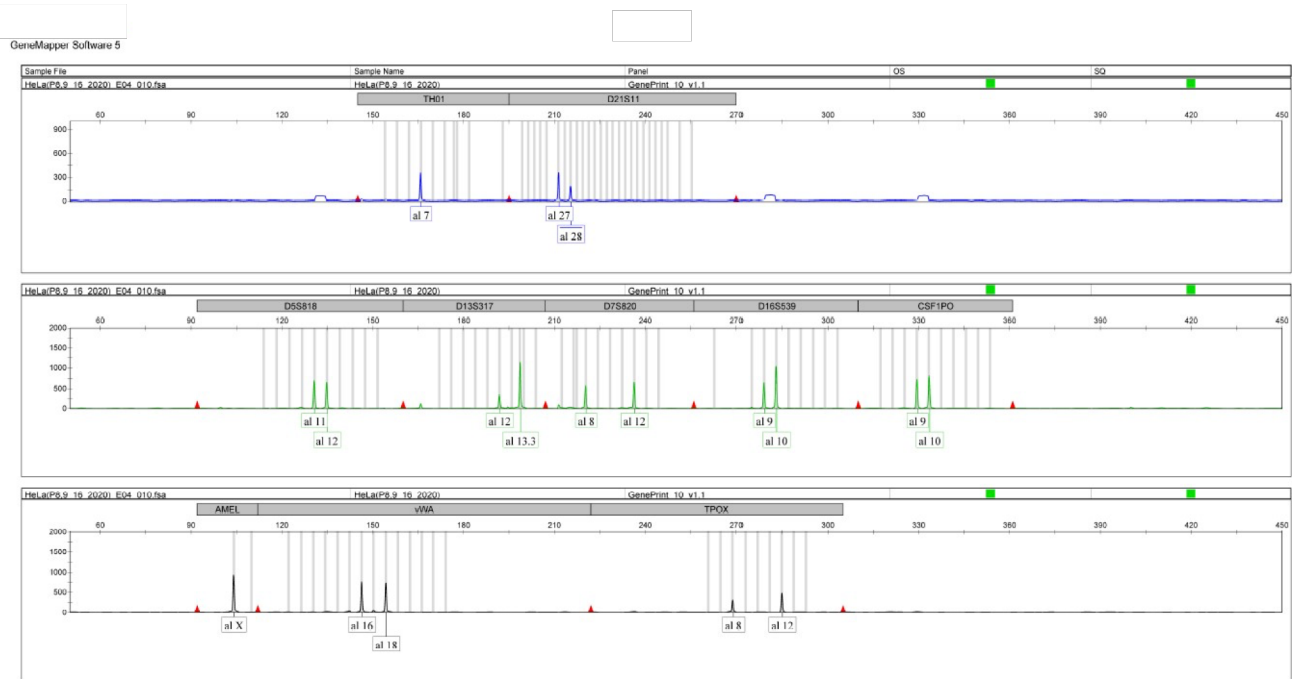


STR Profile

Locus	RD (P15, 10/9/2020)		RD (ATCC CCL-136)	
TH01	9.3		9.3	
D21S11	28	29	-	-
D5S818	11		11	
D13S317	13		13	
D7S820	8	12	8	12
D16S539	10	11	10	11
CSF1PO	10	11	10	11
AMEL	X		X	
vWA	18		18	
TPOX	9		9	

STR profiles of RD (P15, 10/9/2020) and RD (ATCC CCL-136) 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.

Sample : HeLa (P8, 9/16/2020)

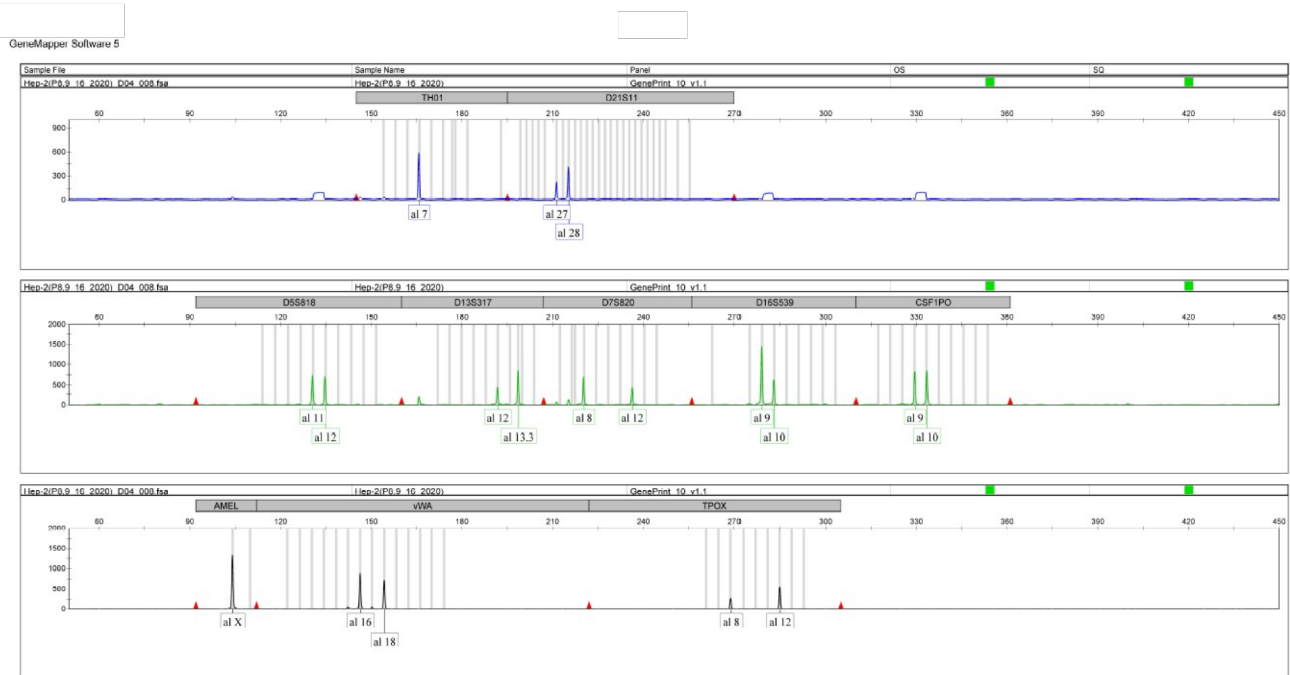


STR Profile

Locus	HeLa (P8, 9/16/2020)		HeLa (ATCC CRM-CCL-2)	
TH01	7		7	
D21S11	27	28	-	-
D5S818	11	12	11	12
D13S317	12	13.3	12	13.3
D7S820	8	12	8	12
D16S539	9	10	9	10
CSF1PO	9	10	9	10
AMEL	X		X	
vWA	16	18	16	18
TPOX	8	12	8	12

STR profiles of HeLa (P8, 9/16/2020) and HeLa (ATCC CRM-CCL-2) 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.

Sample : HEp-2 (P8, 9/16/2020)

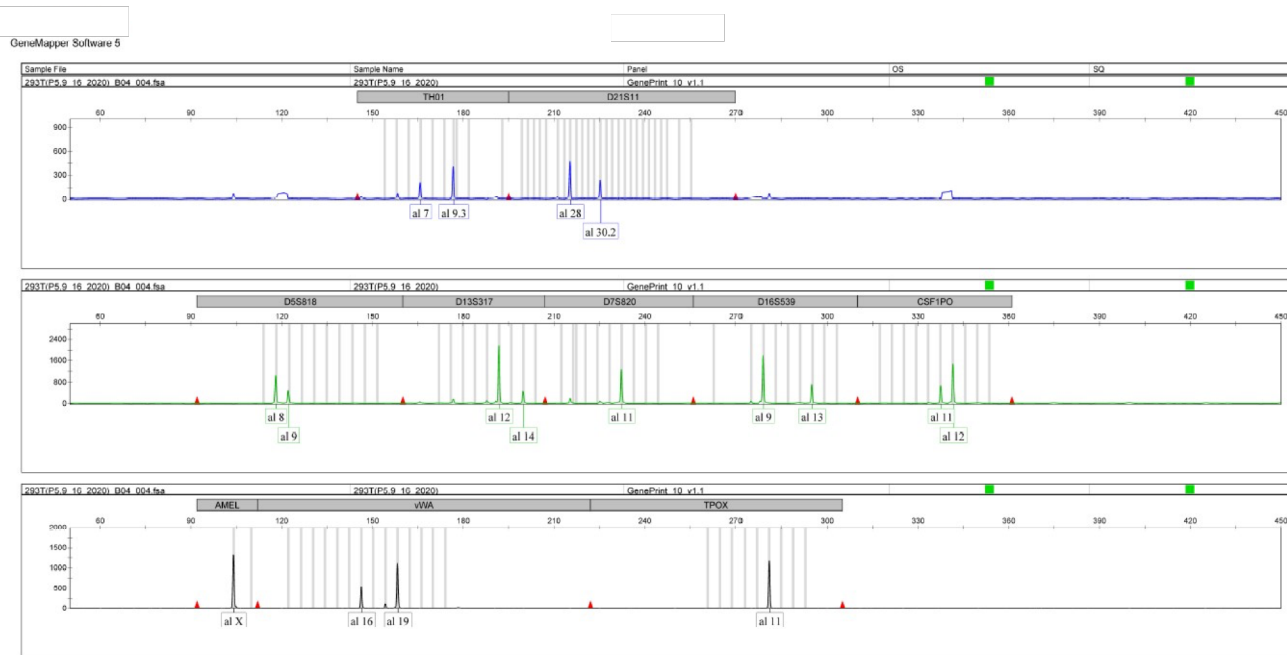


STR Profile

Locus	HEp-2 (P8, 9/16/2020)		HEp-2 (ATCC CCL-23)	
TH01	7		7	
D21S11	27	28	-	-
D5S818	11	12	11	12
D13S317	12	13.3	12	13.3
D7S820	8	12	8	12
D16S539	9	10	9	10
CSF1PO	9	10	9	10
AMEL	X		X	
vWA	16	18	16	18
TPOX	8	12	8	12

STR profiles of HEp-2 (P8, 9/16/2020) and HEp-2 (ATCC CCL-23) 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.

Sample : 293T (P5, 9/16/2020)

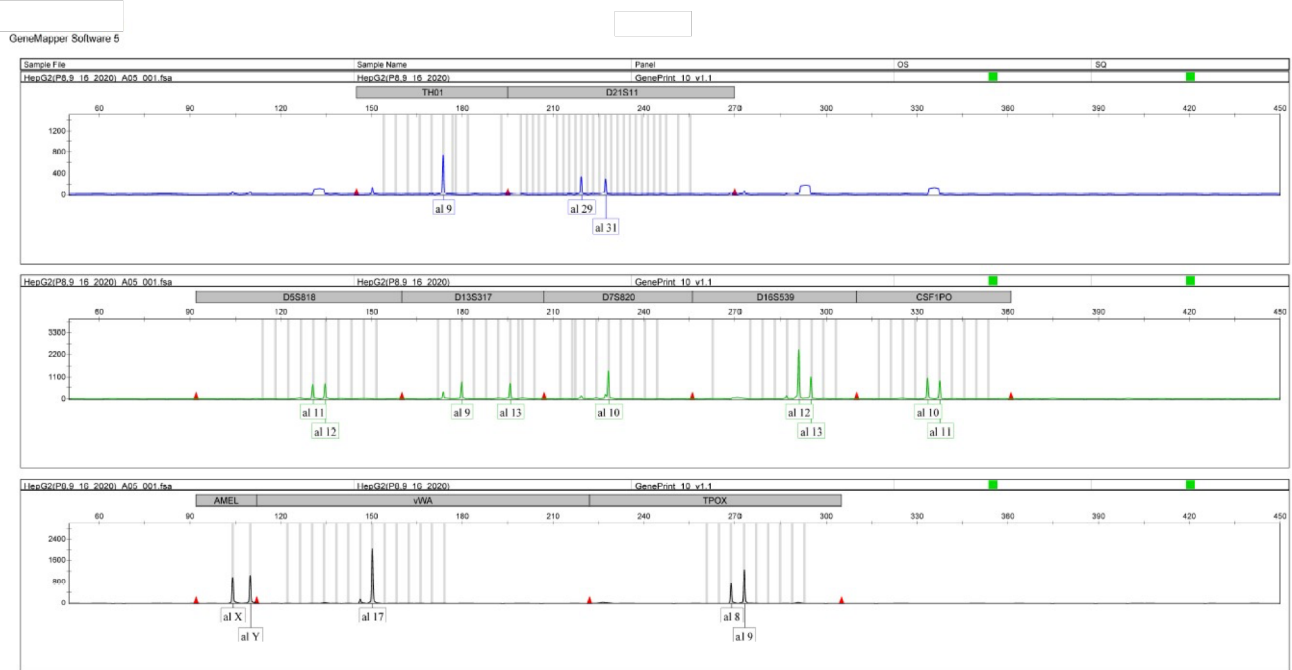


STR Profile

Locus	293T (P5, 9/16/2020)		293T (ATCC CRL-3216)	
TH01	7	9.3	7	9.3
D21S11	28	30.2	-	-
D5S818	8	9	8	9
D13S317	12	14	12	14
D7S820	11		11	
D16S539	9	13	9	13
CSF1PO	11	12	11	12
AMEL	X		X	
vWA	16	19	16	19
TPOX	11		11	

STR profiles of 293T (P5, 9/16/2020) and 293T (ATCC CRL-3216) 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.

Sample : Hep G2 (P8, 9/16/2020)

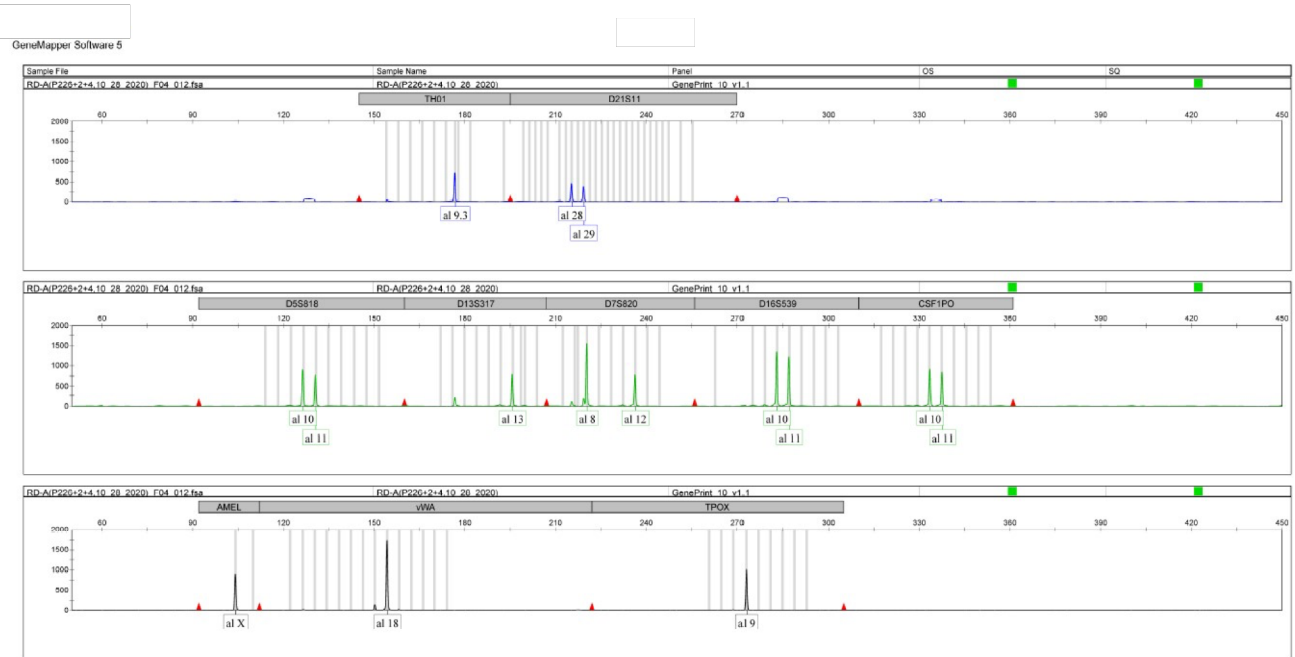


STR Profile

Locus	Hep G2 (P8, 9/16/2020)		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 Hep G2 (P8, 9/16/2020) 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.

Sample : RD-A (P226+2+4, 10/28/2020)



STR Profile

Locus	RD-A (P226+2+4, 10/28/2020)		RD (ATCC CCL-136)	
TH01	9.3		9.3	
D21S11	28	29	-	-
D5S818	10	11	11	
D13S317	13		13	
D7S820	8	12	8	12
D16S539	10	11	10	11
CSF1PO	10	11	10	11
AMEL	X		X	
vWA	18		18	
TPOX	9		9	

STR profiles of RD-A (P226+2+4, 10/28/2020) were not completely matched with RD (ATCC CCL-136). But Evaluation value (EV) between RD-A (P226+2+4, 10/28/2020) and RD (ATCC CCL-136) was 0.96, which was high enough that STR profiles of RD-A (P226+2+4, 10/28/2020) are the same as those of RD (ATCC CCL-136).

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