

## STR Authentication Report For Cell Line

1. Cell Name: NCI-H441
2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 21- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.
3. Sample gene genotype analysis result:

<b>Genotype analysis results of STR and Amelogenin loci in cells</b>						
STR Loci	STR profile for Sample cell			STR profile for Cell Bank cell		
	Cell name: STR25031426			Cell name: NCI-H441 [H441]		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	9	9		9	9	
D7S820	10	10		10	10	
D16S539	9	13		9	13	
VWA	17	17		17	17	
TH01	9.3	9.3		9.3	9.3	
AMEL	X	Y		X	Y	
TPOX	8	10		8	10	
CSF1PO	11	12		11	12	
D12S391	19.3	19.3				
FGA	24	25				
D2S1338	17	19				
D21S11	32.2	32.2				
D18S51	18	19				
D8S1179	8	14				
D3S1358	18	18				
D6S1043	17	17				

PENTAE	12	12				
D19S433	14	14				
PENTAD	10	12				
D1S1656	16	16.3				

4. Conclusion: The STR results of **NCI-H441** cells are consistent with the genotypes of **NCI-H441** cell lines in **DSMZ** database, the cell ID corresponded to **HTB-174**, and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

### 5. Attached Image

