

## Cell Line U-87 MG STR Profile Report

**Cell Line Designation:** U-87 MG

**Date Sample Received:** Oct 20<sup>th</sup>, 2017

**Report Date:** Oct 31<sup>th</sup>, 2017

**Methodology:** Twenty short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available PowerPlex® 21 System from Promega Corporation. The amplified products were processed using the Applied Biosystems 3730xl DNA Analyzer. Data were analyzed using GeneMapper 5.0 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.

**GENECHEM performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.**

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### TEST RESULTS:

Test Results for Submitted Sample		Reference Database Profile
Loci	Query Profile: U-87 MG	Database Profile: U-87 MG
Amelogenin	X	X
D13S317	8 11	8 11
D16S539	12	12
CSF1PO	10 11	10 11
TH01	9.3	9.3
vWA	15 17	15 17
D7S820	8 9	8 9
D5S818	11 12	11 12
TPOX	8	8
D3S1358	16 17	
D1S1656	15	
D6S1043	11 18	
Penta E	7 14	
D18S51	13	
D2S1338	20 23	
Penta D	9 14	
D8S1179	10 11	
D12S391	18 21	
D19S433	15 15.2	
FGA	18 24	
D21S11	28 32.2	
<p><i>Note: The top nine Loci (8 core STR loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, <b>please do not publish</b> the allele calls from all the STR loci tested.</i></p>		

Percent Match: **100%**

The submitted profile is an exact match for the following human cell line(s) in the reference database (8 core loci plus Amelogenin): **U-87 MG**

#### 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.

Reference Database Profile was obtained from ExPASy, DSMZ, ATCC or China National Infrastructure of Cell Line Resource STR database.



