

Cell Line Authentication

The authentication of human cell lines which are being used in many scientific research projects is an important issue. To exclude any cross contamination of your valuable cell line, it is recommended to authenticate by STR (short tandem repeat) Analysis. Misidentified cell lines can be found.

Our service includes a STR profile which consists of the following markers:

CSF1PO	D13S317	D16S539	D7S820	D18S51	Amelogenin
THO1	TPOX	vWA	D3S1358	D21S11	
Penta E	Penta D	D8S1179	FGA	D1S1656	
D2S1338	D5S818	D12S391	D19S433	D6S1043	

How to arrange STR Analysis

Our service includes the preparation of genomic DNA from frozen cell pellets and the comparison of the data with online databases. You can also send your own prepared genomic DNA.

- Please ask for the order form for cell line authentication or download it from our website www.clsgmbh.de
- Fill in the form. Note if you will send a ready prepared genomic DNA or a cell pellet. The form should be sent together with the samples.
- Since the STR data will be sent per email please give us a proper address.
- Please send at least 50ng of non-degraded genomic DNA dissolved in ultrapure water on ice. The concentration should be about 10ng/μl. The 260/280nm ratio should be between 1.8 and 2.0. DNA samples should be packed in a safe-lock tube within a padded envelope at ambient temperature.

Alternative

- Send us a cell pellet on dry ice. The genomic DNA will be prepared in our lab. We need $1-2 \cdot 10^6$ cells.
- You will get the STR profile after 1-2 weeks per email. The results include the comparison of the data with online databases and our own databases. The cell line will be classified as authenticated or misidentified.