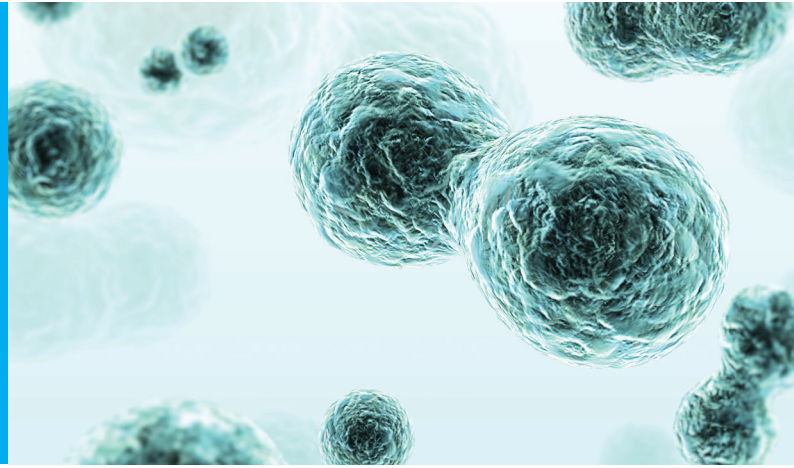


# CELL LINE IDENTIFICATION

An inexpensive method for authenticating human cell lines, using informative Short Tandem Repeat (STR) systems.



## What is Cell Line Identification?

AGRF's human cell line identification service is a method useful in genotyping and is particularly useful in tissue culture strain identification.

Two different multiplex STR systems are available:

- Promega PowerPlex 16HS, uses 16 loci markers
- Promega GenePrint 10 System, uses 10 loci markers

## Applications

- Human identity testing (sample ID confirmation)
- Tissue culture strain identification
- Cell/tissue sample identification
- Cell line authentication/identification
- Cell/tissue provenance testing
- Forensic DNA analysis (for research purposes only)
- Paternity testing (for research purposes only)

*Please note there is a minimum number of eight samples per submission and this service is available for research purposes only.*

## Two Access Options

### Full data service

Clients submit DNA for amplification with the PowerPlex assay reagents.

### Fragment Analysis Service

Clients submit a PCR sample already amplified by the client using the appropriate assay reagents.

## Data Analysis

Both options include electrophoresis and analysis using GeneMapper ID software to provide called alleles for each of the markers.

Final data is supplied to the client for interpretation. To interpret the data, access the ATCC database and match the STR profile provided.

[www.atcc.org/STR\\_Database.aspx](http://www.atcc.org/STR_Database.aspx)

## Data Provided

- Excel file with bin name (allele category) and size
- Capillary electrophoresis raw data file (.fsa)

## Our funding partners

AGRF is a not-for-profit organisation supported by the Commonwealth Government infrastructure schemes administered through Bioplatforms Australia.

These schemes include NCRIS, EIF, Super Science Initiative CRIS and NCRIS 2.