ATCC® | Credible leads to Incredible™

Service

Trust Your Cells. Trust Your Data.

Cell Line Authentication Service

Historically, cell line misidentification, cross-contamination, and genetic drift have resulted in inconsistent or invalidated studies. As such, establishing a human cell line's identity through Short Tandem Repeat (STR) profiling has become essential in conducting valid, reproducible, impactful research. A growing list of 30 journals and organizations are now highly recommending or requiring cell authentication to publish a researcher's findings. Moreover, in 2016 the National Institute for Health will require scientists to authenticate their cell lines to receive funding.

Since 1986, ATCC has been the leader in utilizing STR technology and human STR data interpretation. ATCC routinely performs STR analysis on its human cell lines, and from the resulting data has created a searchable online database of those STR profiles. Further, this large data set is employed as a reference against the profiles generated by the ATCC Cell Authentication Service to create a comprehensive interpretation of the assay results.

ATCC provides:

- Comprehensive analysis of your cell line by ATCC experts
- ISO/IEC 17025:2005 certified process for STR authentication
- Barcoded sample and process controls
- STR report that meets requirements for funding, publication, and quality control
- Results emailed to you within 3-5 business days
- Substantial savings for larger volume authentication services

Have confidence in the identity of your cells, and get the data you need in 3 Easy Steps!

1. **Place your order for the service**
2. **Spot cells onto supplied Sample Collection Card**
3. **Mail dried card to ATCC in pre-addressed envelope**

Visit us online at **www.atcc.org/STR** to learn more about cell authentication or place your order for the service.

ASN-0002 Authentication of Human Cell Lines: Standardization of STR Profiling

ASN-0002: Authentication of Human Cell Lines: Standardization of STR Profiling, an approved American National Standard published by ATCC under the direction of an international work group, provides a standardized procedure for unambiguous authentication and identification of human cell lines using STR profiling.

The standard incorporates:

- A historical perspective of cell line cross-contamination and misidentification
- Guidance on the use of STR profiling for authenticating human cell lines
- A detailed protocol on the preparation of DNA samples
- Methods for maintaining quality control of data
- Direction on the interpretation of STR profiling results

ASN-0002: Authentication of Human Cell Lines: Standardization of STR Profiling is now available for purchase on the ANSI eStandards Store at www.webstore.ansi.org.

ATCC® STR Profile Database

ATCC has decades of experience with STR profiling and unmatched expertise in data interpretation. The ATCC STR Profile Database provides researchers in industry and academia with an easy-to-use comparative tool to cross-reference STR profile queries against hundreds of human cell lines maintained by ATCC.

Start analyzing your STR profiles today at **www.atcc.org/STR_Database**!

ATCC® Standards Development Organization

In 2007 the ATCC Standards Development Organization (SDO) became the first biological resource organization to become an American National Standards Institute (ANSI) accredited SDO. The ATCC Standards Development Organization (SDO) is a developer and publisher of stakeholder-proposed, industry-relevant, national consensus standards for biomaterials and related processes.

Learn more at **www.atccsdo.org**.

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