

ATCC®

BIOLOGICAL CONTROLS FROM ATCC CELL CULTURES AND MICROBIAL STRAINS

Our knowledge, expertise, and meticulous methodologies support the control needs of our customers worldwide

Over **90** years of experience

More than **3,800** primary, immortalized, and continuous cell lines, and **85,000** microbial strains

We produce, extract, and purify related biologicals such as quantitated nucleic acids, and provide alternative formats such as cell pellets; formalin-fixed, paraffin-embedded (FFPE) samples; and inactivated microbial strains for use as controls in molecular assays

www.atcc.org/services

INACTIVATED MICROBIAL STRAINS

- Custom inactivation of bacterial, fungal, viral, & protist strains
- Fully intact, whole genome, non-viable
- Inactivation is tested and a COA is provided
- Mimics a clinical specimen; use in the same protocols as clinical samples
- Qualitative or quantitative format
- Both pre- & post-inactivation quantitation available by Droplet Digital™ PCR (ddPCR™)

www.atcc.org/assaydevelopment

NUCLEIC ACIDS

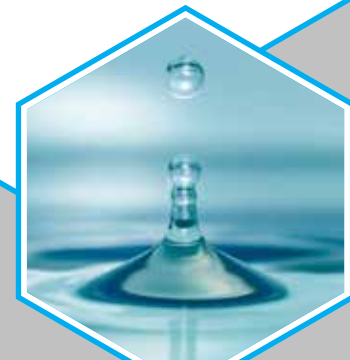
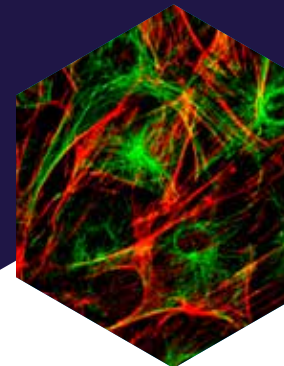
- Genomic nucleic acids extracted from ATCC cell lines & microbial strains
- Custom production of synthetic & native microbial nucleic acids
- Small- & large-scale extractions
- Qualitative & quantitative formats

www.atcc.org/nucleicacids

MICROBIAL QUANTITATION SOLUTIONS

- Titering, qPCR, & ddPCR™
- TCID₅₀, CEID₅₀, PFU, CFU/mL, IFU, cells/mL, genome copy numbers
- Viral quantification
- Bacterial & fungal quantification
- Cell density of protist cells (cells/mL)
- Flexible solutions & formats

www.atcc.org/services



GLOBAL STORAGE & DISTRIBUTION

- Preservation, storage, & global distribution of control material
- Short- and long-term options
- Secure, controlled, monitored environment
- Inventory management system assures biomaterial traceability
- Enhanced features for cGMP-compliant storage

www.atcc.org/biorepository



BIOLOGICAL CONTROLS FROM CELL CULTURES

- Used to verify and routinely monitor the performance of workflows & assays
- Over 3,800 ATCC catalog cell cultures
- Nucleic acids: DNA and RNA
- Alternative formats:
 - Cell pellets
 - FFPE blocks
 - Scrolls
 - Slides

www.atcc.org/controls



NGS & MICROBIOME CONTROLS

- Mock microbial communities that mimic mixed metagenomic samples
- For optimization of metagenomic workflows, assay development, & daily run controls for molecular assays
- Provides reliable, comparative data while improving assay consistency
- Prepared from fully sequenced, characterized ATCC Genuine Cultures[®]
- Strain selection based on relevant phenotypic & genotypic attributes
 - Gram stain
 - GC content
 - Genome size
 - Spore formation
- Whole cell & genomic material available
- Staggered & even mix material offered
- Custom preparations now available

www.atcc.org/microbiome

BIOLOGICAL CONTROLS FROM MICROBIAL STRAINS

- Used to verify and routinely monitor the performance of workflows & assays
- Over 85,000 ATCC catalog microbial strains
- Over 1,000 nucleic acid preparations
- Custom nucleic acids
- Both small- & large-scale production of bacterial DNA, fungal DNA, protist DNA, viral DNA & RNA
- Qualitative & quantitative formats
- Native & synthetic nucleic acids

www.atcc.org/controls



Partner with the global biological resource leader today! Visit us at www.atcc.org/Controls