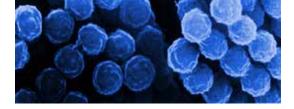
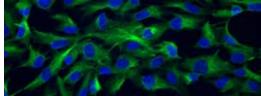
THE ESSENTIALS OF LIFE SCIENCE RESEARCH GLOBALLY DELIVERED™







CERTIFIED REFERENCE MATERIAL

BIOLOGICAL STANDARDS WITH UNPRECEDENTED RELIABILITY ONLY FROM ATCC

ATCC is pleased to provide Certified Reference Material (CRM) produced under ISO Guide 34:2009 and ISO/IEC 17025:2005 accredited and ISO 9001:2008 certified laboratories.

WHY USE CERTIFIED REFERENCE MATERIAL?

The inherent variability of biological materials brings unique challenges to establishing standards for *in vitro* model systems and to establishing ISO compliant processes to produce them. Biological reference materials produced under an ISO Guide 34 accredited process have confirmed identity, well-defined characteristics and an established chain of custody. These qualities make CRMs ideal as biological standards for research and development purposes.

WHAT ARE THE FEATURES OF ATCC CERTIFIED REFERENCE MATERIALS?

- Optimized for homogeneity and consistency from lot to lot
- Tested to a stated level of confidence, where appropriate
- Traceable pedigree to the ATCC seed culture
- Verified using polyphasic (genotypic and phenotypic) testing to confirm identity
- Unique level of accuracy and lot specific results
- Comprehensive documentation, including property values and their uncertainty calculations, expiration dating and serial numbering of vials

WHAT ARE THE BENEFITS OF CERTIFIED REFERENCE MATERIALS FROM ATCC?

Certified Reference Material offers the highest level of quality assurance, accuracy and traceability. They give you complete confidence that your results are reliable and reproducible.

Current & Upcoming Culture Selections

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ATCC ® No.	Item Description	Designation		
CELL LINES				
CRM-CCL-2™	Human cervical adenocarcinoma	HeLa cells		
CRM-CRL-1550™	Human epidermoid cervical carcinoma	Ca Ski cells		
CRM-HTB-31™	Human cervical carcinoma	C-33 A		
CRM-CCL-185™ COMING SOON!	Human lung carcinoma	A549		
CRM-HTB-174™ COMING SOON!	Human lung adenocarcinoma	NCI-H441		
CRM-CCL-155™ COMING SOON!	Human myeloma	RPMI 8226		
CRM-CCL-119™ COMING SOON!	Human acute lymphoblastic leukemia	CCRF-CEM		
CRM-HTB-26™ COMING SOON!	Human breast adenocarcinoma	MDA-MB-231		
CRM-CRL-1420™ COMING SOON!	Human pancreatic carcinoma	MIA PaCa-2		
CRM-TIB-161™ COMING SOON!	Human lymphoblast, Sezary Syndrome	HuT 78		

ATCC ® No.	Item Description	Designation		
BACTERIA				
CRM-6633™	Bacillus subtilis subsp. spizizenii	NRS-231		
CRM-11437™	Clostridium sporogenes	L.S. McClung 2006		
CRM-8739™	Escherichia coli	Crooks		
CRM-11229™	Escherichia coli	AMC 198		
CRM-9341™	Kocuria rhizophila	FDA strain PCI 1001		
CRM-9027™	Pseudomonas aeruginosa	R. Hugh 813		
CRM-27853™	Pseudomonas aeruginosa	Boston 41501		
CRM-14028™	Salmonella enterica	CDC-6516-60		
CRM-6538™	Staphylococcus aureus	FDA 209		
CRM-12228™	Staphylococcus epidermidis	FDA strain PCI 1200		
YEAST AND FUNGI				
CRM-16404™	Aspergillus brasiliensis	WLRI 034 (120)		
CRM-10231™	Candida albicans	3147		
CRM-9763™	Sacchromyces cerevisiae	NRRL Y-567		

WHEN ARE ATCC CERTIFIED REFERENCE MATERIALS RECOMMENDED FOR USE?

- For establishing sensitivity, linearity and specificity during assay validation or implementation
- For challenging assay performance
- For validating or comparing test methods
- For testing and calibration in ISO 17025 labs which stipulate the use of reference materials
- For benchmarking critical assay performance for regulatory submissions and production lot release
- For Pharmacopeia compendial tests



CRM TESTING PANELS

ATCC has organized CRM strains based on federal guidelines and regulations, as well as the needs of industry and research. Each panel is comprised of the same CRM materials you've come to trust, produced by ATCC under an ISO Guide 34:2009 process to confirm identity, characteristics, and chain of custody. Each panel is offered at bulk discount pricing, allowing you to take advantage of added cost savings when compared to individual items.

ATCC Antimicrobial Effectiveness Testing Panel (ATCC® MP-16™)

ATCC® Number	Item Description	Designation	Isolation
CRM-6538™	Staphylococcus aureus	FDA 209	Human lesion
CRM-8739™	Escherichia coli	Crooks	Feces
CRM-9027™	Pseudomonas aeruginosa	R. Hugh 813	Outer ear infection
CRM-10231™	Candida albicans	3147	Man with bronchomycosis
CRM-16404™	Aspergillus brasiliensis	WLRI 034 (120)	Blueberry, North Carolina

ATCC Microbial Enumeration Testing Panel (ATCC® MP-17™)

ATCC® Number	Item Description	Designation	Isolation
CRM-6538™	Staphylococcus aureus	FDA 209	Human lesion
CRM-6633™	Bacillus subtilis subsp. spizizenii	NRS 231	Unknown
CRM-9027™	Pseudomonas aeruginosa	R. Hugh 813	Outer ear infection
CRM-10231™	Candida albicans	3147	Man with bronchomycosis
CRM-16404™	Aspergillus brasiliensis	WLRI 034 (120)	Blueberry, North Carolina

CRM-KRAS CELL AND DNA PANELS - COMING SOON!

Two new CRM Testing Panels are currently in production: CRM-KRAS Cell Panel and CRM-KRAS DNA Panel. These panels will feature cultures that contain the seven KRAS mutations most commonly associated with tumor progression, including p.G12S, p. G12V, p.G12A, p.G12D, p.G13D, p.G12C, and p.G12R. Each panel will also include a WT for use as a control.

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