

PRODUCT SPOTLIGHT

CERTIFIED REFERENCE MATERIALS

BIOLOGICAL STANDARDS WITH UNPRECEDENTED RELIABILITY — ONLY FROM ATCC

ATCC is pleased to provide Certified Reference Materials (CRMs) produced under ISO 17034 and ISO/IEC 17025 accredited and ISO 9001 certified laboratories.

WHY USE CERTIFIED REFERENCE MATERIALS?

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 17034 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 Materials offer the highest level of quality assurance, accuracy, and traceability. They give you complete confidence that your results are reliable and reproducible.

WHEN ARE ATCC CERTIFIED REFERENCE MATERIALS RECOMMENDED FOR USE?

- Establishing sensitivity, linearity, and specificity during assay validation or implementation
- Challenging assay performance
- Validating or comparing test methods
- Testing and calibration in ISO 17025 labs that stipulate the use of reference materials
- Benchmarking critical assay performance for regulatory submissions and production lot release
- Pharmacopeia compendial tests

CRM NUCLEIC ACIDS

ATCC CRM nucleic acids are isolated from a variety of biological materials that meet unique research and assay development needs.

Table 1: Quantitative Mycoplasma DNA CRM

ATCC® No.	Item Description	Designation
qCRM-15531D™	<i>Mycoplasma pneumoniae</i>	FH strain of Eaton Agent [NCTC 10119]
qCRM-17981D™	<i>Mycoplasma hyorhinis</i>	BTS-7 [ATCC 23234, PG 42, NCTC 10130]
qCRM-19610D™	<i>Mycoplasma gallisepticum</i>	[NCTC 10115, PG 31, X95]
qCRM-19989D™	<i>Mycoplasma fermentans</i>	PG18 [G, NCTC 10117]
qCRM-23064D™	<i>Mycoplasma salivarium</i>	[H110, NCTC 10113, PG 20]
qCRM-23206D™	<i>Acholeplasma laidlawii</i>	PG8 [NCTC 10116, PG8, A]
qCRM-23714D™	<i>Mycoplasma orale</i>	CH 19299 [NCTC 10112]
qCRM-23838D™	<i>Mycoplasma arginine</i>	G230 [NCTC 10129]
qCRM-25204D™	<i>Mycoplasma synoviae</i>	WVU 1853 [NCTC 10124]
qCRM-27545D™	<i>Mycoplasma hominis</i>	[LBD-4]

*Each qCRM is quantitated for genome copy number per microliter.

Table 2: Human KRAS Mutation DNA CRM

ATCC® No.	Item Description	Designation	KRAS Mutation	ATCC® Source
CRM-CCL-119D™	Human acute lymphoblastic leukemia	CCRF-CEM	p.G12D c.35G>A	CRM-CCL-119™
CRM-CCL-155D™	Human myeloma	RPMI 8226	p.G12D c.35G>C	CRM-CCL-155™
CRM-CCL-185D™	Human lung carcinoma	A-549	p.G12S c.34G>A	CRM-CCL-185™
CRM-CRL-1420D™	Human pancreatic carcinoma	MIA PaCa-2	p.G12C c.34G>T	CRM-CRL-1420™
CRM-CRL-3211D™	Human pancreas adenocarcinoma	PSN-1	p.G12R c.34G>C	CRM-CRL-3211™
CRM-HTB-174D™	Human lung adenocarcinoma	NCI-H441	p.G12V c.35G>T	CRM-HTB-174™
CRM-HTB-26D™	Human breast adenocarcinoma	MDA-MB-231	p.G13D c.38G>A	CRM-HTB-26™
CRM-TIB-161D™	Human lymphoblast, Sezary Syndrome	HuT 78	Wild type	CRM-TIB-161™

CRM CULTURES

Table 3: Current Culture Selections

ATCC® No.	Item Description	Designation
Cell Lines*		
CRM-CCL-2™	Human cervical adenocarcinoma	HeLa
CRM-CRL-1550™	Human epidermoid cervical carcinoma	Ca Ski
CRM-HTB-31™	Human cervical carcinoma	C-33 A
CRM-CCL-185™	Human lung carcinoma	A549
CRM-HTB-174™	Human lung adenocarcinoma	NCI-H441
CRM-CCL-119™	Human acute lymphoblastic leukemia	CCRF-CEM
CRM-HTB-26™	Human breast adenocarcinoma	MDA-MB-231
CRM-CRL-1420™	Human pancreatic carcinoma	MIA PaCa-2
CRM-TIB-161™	Human lymphoblast, Sezary Syndrome	HuT 78
CRM-CCL-155™	Human myeloma	RPMI 8226
CRM-CRL-3211™	Human pancreas adenocarcinoma	PSN-1

Table 3: Current Culture Selections (continued)

ATCC® No.	Item Description	Designation
Bacteria		
CRM-11437™	<i>Clostridium sporogenes</i>	L.S. McClung 2006
CRM-8739™	<i>Escherichia coli</i>	Crooks
CRM-11229™	<i>Escherichia coli</i>	AMC 198
CRM-9341™	<i>Kocuria rhizophila</i>	FDA strain PCI 1001
CRM-9027™	<i>Pseudomonas paraeruginosa</i>	R. Hugh 813
CRM-27853™	<i>Pseudomonas aeruginosa</i>	Boston 41501
CRM-14028™	<i>Salmonella</i> subsp. <i>enterica</i>	CDC-6516-60
CRM-6538™	<i>Staphylococcus</i> subsp. <i>aureus</i>	FDA 209
CRM-12228™	<i>Staphylococcus epidermidis</i>	FDA strain PCI 1200
Yeast and Fungi		
CRM-16404™	<i>Aspergillus brasiliensis</i>	WLRI 034 (120)
CRM-10231™	<i>Candida albicans</i>	3147

*See Table 2 for more information on CRM cell lines tested for KRAS mutations.

CRM TESTING PANEL

ATCC has organized CRM strains based on federal guidelines and regulations as well as the needs of industry and research. This panel comprises the same CRM materials you've come to trust, produced by ATCC under an ISO 17034 process to confirm identity, characteristics, and chain of custody. The panel is offered at bulk discount pricing, allowing you to take advantage of added cost savings when compared to individual items.

**Table 4: ATCC Antimicrobial Effectiveness Testing Panel (ATCC® MP-16™)**

ATCC® No.	Item Description	Designation	Isolation
CRM-6538™	<i>Staphylococcus</i> subsp. <i>aureus</i>	FDA 209	Human lesion
CRM-8739™	<i>Escherichia coli</i>	Crooks	Feces
CRM-9027™	<i>Pseudomonas paraeruginosa</i>	R. Hugh 813	Outer ear infection
CRM-10231™	<i>Candida albicans</i>	3147	Man with bronchomycosis
CRM-16404™	<i>Aspergillus brasiliensis</i>	WLRI 034 (120)	Blueberry, North Carolina

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