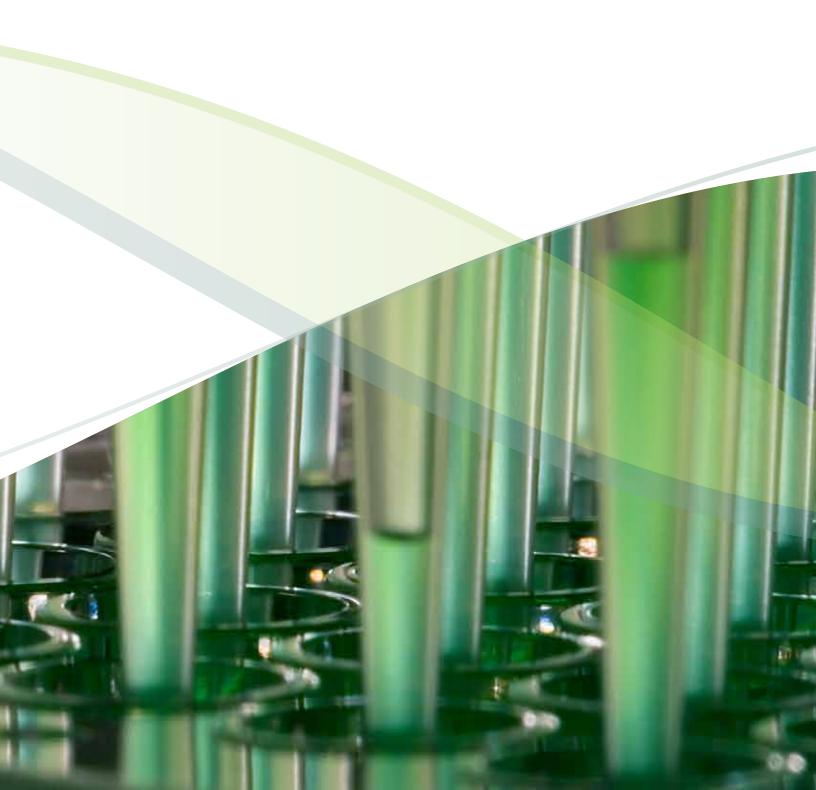




# Quantitative Nucleic Acids

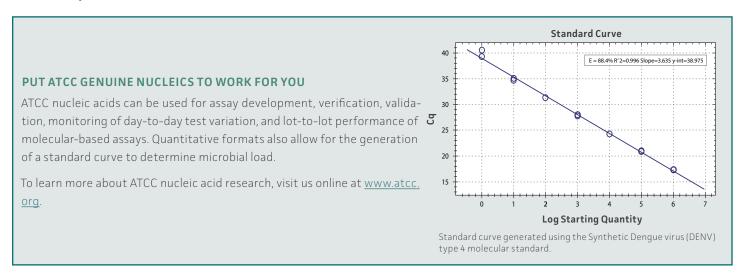


### SKIP IN VITRO WITH ATCC® GENUINE NUCLEICS

The extraction, preparation, and verification of nucleic acids can often require extensive amounts of time, labor, and expense. To save you time and money, ATCC has developed stabilized, quantitative nucleic acids for use in inclusivity/exclusivity testing, establishing limits of detection, and validating or comparing test methods. Our portfolio of quantitative products includes:

- Synthetic nucleic acids DNA and RNA synthetically manufactured under ISO 13485 guidance to include key target regions from select bacterial and viral strains
- Genomic nucleic acids Whole genome preparations aseptically prepared from minimally passaged ATCC® Genuine Cultures
- **Certified reference materials** Genomic DNA produced under an ISO 17034 accredited process to confirm identity, well-defined characteristics, and an established chain of custody

So, skip in vitro and let ATCC do the work for you! Trust ATCC Genuine Nucleics for your laboratory's molecular needs, and get your research started today.



### SYNTHETIC NUCLEIC ACIDS

ATCC performs extensive research on select organisms, and works with collaborators to identify key target regions within the genome that are compatible with primers used in molecular assays. Multiple sequence alignment allows for the development of a consensus sequence that is used to synthetically build the finished product.

- Eliminate the need to culture microorganisms
- Use in a BSL-1 facility
- No shipping restrictions
- Manufactured under ISO 13485 guidance
- Quantified using Droplet Digital™ PCR (ddPCR™)

Each preparation is extensively tested to ensure product identity, stability, quantity, and functionality with molecular applications. What's more, each DNA or RNA preparation is stabilized using a proprietary stabilization matrix to ensure consistent results, run after run.

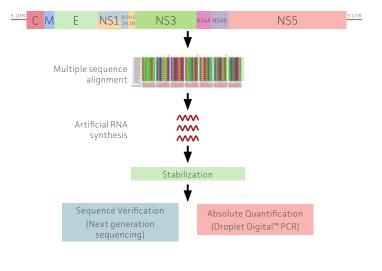


Table 1: Quantitative Synthetic Nucleic Acids

<u>VR-3249SD</u> ™	DIV :		
	BK virus	Full length genome of BK virus derived from a plasmid clone	Blood-borne Disease Research
<u>√R-3233SD</u> ™	Hepatitis C virus	Fragments from 5'UTR and X-tail region (3'UTR)	Blood-borne Disease Research
VR-3247SD™	Human gammaherpesvirus 4 (Epstein-Barr virus)	Fragments from LMP2, BNRF-1, EBER-1, BAMH1W, EBNA-2, BHRF-1, EBNA-1 Region, BXLF-1, BALF-5, and LMP-1	Blood-borne Disease Research
VR-3261SD™	Human herpesvirus 8	Fragments from the minor capsid protein (ORF 26) and the latency-associated nuclear antigen (LANA or ORF 73)	Blood-borne Disease Research
<u>VR-3237SD</u> ™	Sapovirus	Fragments from the RNA-dependent RNA polymerase, VP1, and polyprotein regions.	Digestive System Disease Research
VR-3238SD™	Astrovirus	Fragments from ORF1a, ORF1b, ORF2, and 3' UTR regions	Digestive System Disease Research
<u>PRA-3000SD</u> ™	Cyclospora cayetanensis	Full 18S rRNA gene sequence, and full ITS1 and ITS2 sequences	Digestive System Disease Research
<u>PRA-3011SD</u> ™	Cryptosporidium hominis	Fragments from 18s rRNA, heat shock protein 70 (hsp70), COWP, GP60, dnaJ-like protein, and LIB13 regions	Digestive System Disease Research
<u>PRA-3007SD</u> ™	Dientamoeba fragilis	Fragmetns from the 18S ribosomal RNA, internal transcribed spacer 1 (ITS1), and 5.8S ribosomal RNA regions	Digestive System Disease Research
<u>PRA-3006SD</u> ™	Giardia lamblia	Fragments from the 18S ribosomal RNA, beta-giardin, triosephosphate isomerase, and glutamate dehydrogenase regions.	Digestive System Disease Research
<u>VR-3257SD</u> ™	Hepatitis A virus	Fragments from the 5' untranslated region, viral capsid proteins (VP1- 4), self-cleaving peptide 2A, proteinase 3C, and 3D RNA polymerase.	Digestive System Disease Research
<u>VR-3258SD</u> ™	Hepatitis E virus	Fragments from the 5' untranslated region, methyl transferase, Y domain, X domain, helicase, RNA-directed RNA polymerase, and open reading frames 2 and 3 (ORF2 and ORF3)	Digestive System Disease Research
<u>VR-3260SD</u> ™	Human parechovirus 3	Fragments from the 5'UTR and the viral protein VP1.	Digestive System Disease Research
VR-3255SD™	Murine Norovirus	Fragments from the 5'UTR, NS1/2, NS5, NS6, NS7, Gp1, VF1, GP2, GP3, and 3'UTR	Digestive System Disease Research
<u>VR-3234SD</u> ™	Norovirus GI	Fragments from the RNA-dependent RNA polymerase and VP1 regions	Digestive System Disease Research
VR-3235SD™	Norovirus GII	Fragments from the RNA-dependent RNA polymerase, VP1, and VP2 regions	Digestive System Disease Research
VR-3264SD <sup>™</sup>	Human herpesvirus 6	Fragments from U31, U38, U57, U65/U66, U67, U90, and U94 regions	Neurological Disease Research
<u>VR-3265SD</u> ™	Human herpesvirus 7	Fragments from U10, U31, U38, U39, U42, and U57 regions	Neurological Disease Research
<u>BAA-4009SD</u> ™	Mycobacterium leprae	Fragments from the RLEP, Ag85B, 16S rRNA, and <i>rpoB</i> regions	Neurological Disease Research
VR-3270SD <sup>™</sup>	Monkeypox virus	Fragments from J2L, D14L, F3L, F8L, A27L, A29L, B6R, B7R, and N3R regions	Pox Disease Research
BAA-4000SD™	Coxiella burnetii	Fragments from the com1, icd, transposase (IS1111A), gyrA, and sodB regions	Respiratory Disease Research
VR-3251SD™	Human bocavirus	Fragments from the 5'UTR, NS1, NP1, VP1, VP2, and 3' UTR genes.	Respiratory Disease Research
<u>VR-3262SD</u> ™	Human coronavirus strain HKU1	Fragments from from the acidic tandem repeat region, growth factor-like protein, NTPase/helicase domain, RNA-dependent RNA polymerase, spike, and nucleocapsid regions	Respiratory Disease Research
VR-3263SD™	Human coronavirus strain NL63	Fragments from NSP3 (ORF 1A), Rdrp (nsp12), NTPase (nsp13), nsp16, spike protein, nucleocapsid, and 3' UTR	Respiratory Disease Research
√R-3250SD <sup>™</sup>	Human metapneumovirus (hMPV)	Fragments from the N, P, M, F, and L genes	Respiratory Disease Research
VR-3248S <u>D</u> ™	Middle East respiratory syndrome coronavirus (MERS-CoV)	Fragments from the ORF1ab, ORF5, upper envelope (upE), ORF8b, nucleocapsid (N) protein gene, and 3' UTR regions	Respiratory Disease Research
MYA-5006SD™	Pneumocystis jirovecii	Fragments from the mtLSU rRNA, mtSSU rRNA, DHPS, MSG, KEX-1, and Beta-tubulin regions.	Respiratory Disease Research
VR-3276SD <sup>™</sup>	Severe acute respirtory syndrome-related coronavirus 2 (SARS-CoV-2)	Fragments from ORF 1ab (including ORF-1b-nsp14 and RdRp), Envelope, and Nucleocapsid regions.	Respiratory Disease Research
VR-3277S <u>D</u> ™	Severe acute respirtory syndrome-related coronavirus 2 (SARS-CoV-2)	Fragment from the 5' Glycoprotein (Spike) region	Respiratory Disease Research
VR-3278SD™	Severe acute respirtory syndrome-related coronavirus 2	Fragment from the 3' Glycoprotein (Spike) region	Respiratory Disease Research
	(SARS-CoV-2)		

Table 1: Quantitative Synthetic Nucleic Acids

ATCC® No.	Organism	Source Information	Research Applications
VR-3280SD™	Severe acute respirtory syndrome coronavirus [2003] (SARS-CoV)	Fragment from the nsp9 (RdRp), nsp11 and N regions.	Respiratory Disease Research
BAA-4001SD™	Chlamydia trachomatis LGV Type 1	Fragments from MOMP, 16S rRNA, pmpH, dnaB, putative virulence plasmid integrase regions, and conserved hypothetical virulence plasmid protein	Reproductive Health Research
BAA-4002SD™	<b>Chlamydia trachomatis</b> LGV Type 2	Fragments from MOMP, 16S rRNA, pmpH and dnaB regions	Reproductive Health Research
BAA-4003SD™	<b>Chlamydia trachomatis</b> LGV Type 3	Fragments from MOMP, 16S rRNA, pmpH and dnaB regions	Reproductive Health Research
VR-3245S <u>D</u> ™	Human immunodeficiency virus 1 (HIV-1)	Fragments from the 5' LTR, gag gene, polgene (including protease, reverse transcriptase, and integrase regions), tat gene, rev gene, and nef gene.	Reproductive Health Research & Blood-borne Disease Research
<u>VR-3259SD</u> ™	Human T-cell leukemia virus 2 (HTLV-2)	Proviral genome sequence of HTLV-2 except the long terminal repeats (LTRs)	Reproductive Health Research & Blood-borne Disease Research
VR-3232SD™	Hepatitis B virus	Fragments from the highly conserved precore, core, P, S and X regions	Reproductive Health Research & Blood-borne Disease Research
VR-3266SD™	Human immunodeficiency virus 2 (HIV-2)	Fragments from the envelope (ENV), group specific antigen (GAG) and DNA polymerase (POL) regions	Reproductive Health Research & Blood-borne Disease Research
VR-3240SD™	Human papillomavirus 16	Full length genome of HPV 16 derived from a plasmid clone	Reproductive Health Research
<u>VR-3241SD</u> ™	Human papillomavirus 18	Full length genome of HPV 18 derived from a plasmid clone	Reproductive Health Research
VR-3256SD™	Human papillomavirus 31	Full length genome of HPV 31 derived from a plasmid clone	Reproductive Health Research
BAA-2641SD™	Mycoplasma genitalium	Fragments from the 16S gene, mgpA, and gap	Reproductive Health Research
BAA-2642SD™	Treponema pallidum	Fragments from the polA, tpr, 23S gene, arp,16S gene, flaA, 47kDa protein gene, and bmp	Reproductive Health Research
BAA-4004SD™	Ureaplasma urealyticum	Fragments from 16S rRNA, ureA, intergenic region 1, ureB, intergenic region 2, ureC, ureG, and MBA regions	Reproductive Health Research
PRA-3008SD	Babesia canis	Partial sequence of 18S ribosomal RNA	Vector-borne Disease Research
VR-3272SD™	Bourbon virus	Fragments from the PB1 and NP regions	Vector-borne Disease Research
<u>VR-3246SD</u> ™	Chikungunya virus	Fragments from the 5' UTR, nsP1, nsP2, nsP3, nsP4, E2, and E1 genes	Vector-borne Disease Research
<u>VR-3228SD</u> ™	Dengue virus type 1	Fragments from the capsid, membrane, and envelope regions	Vector-borne Disease Research
VR-3229SD™	Dengue virus type 2	Fragments from the capsid, membrane, and envelope regions	Vector-borne Disease Research
VR-3230SD™	Dengue virus type 3	Fragments from the capsid, membrane, and envelope regions	Vector-borne Disease Research
VR-3231SD™	Dengue virus type 4	Fragments from the capsid, membrane, and envelope regions	Vector-borne Disease Research
VR-3239SD™	Eastern equine encephalitis virus	Fragments from the capsid, NSP1, NSP3, 3' UTR, E1 envelope glycoprotein, and the E2 envelope glycoprotein regions	Vector-borne Disease Research
<u>PRA-3001SD</u> ™	Plasmodium malariae	Fragments from the 18S rRNA gene, UTR, cyclooxygenase 1 and 3 (Cox1 & Cox3), and Cytochrome B (Cytb) region	Vector-borne Disease Research
PRA-3004SD™	Plasmodium vivax	Fragments from 18s rRNA, mitochondrial DNA, cox3, cox1, cytB, and Aspartic protease PM4 regions	Vector-borne Disease Research
VR-3273SD™	Powassan virus lineage I	Fragments from the E, NS1, NS5, and 3' UTR regions.	Vector-borne Disease Research
VR-3275SD™	Powassan virus lineage II	Fragments from the E, NS1, NS5, and 3' UTR regions.	Vector-borne Disease Research
VR-3254SD™	Rift Valley fever virus	Fragments from the long, medium, and small genome segments, including the Gn, Nss, and Nsm genes	Vector-borne Disease Research
<u>VR-3236SD</u> ™	Saint Louis encephalitis virus	Fragments from the NS1 gene, premembrane, envelope, NS5 gene, and 3' UTR regions	Vector-borne Disease Research
<u>PRA-3012SD</u> ™	Trypanosoma cruzi	Fragments from 18S rRNA, Kinetoplast minicircle, and Lathosterol oxidase (TcSC5D) regions, and a full-length satellite sequence.	Vector-borne Disease Research
VR-3274SD™	West Nile virus	Fragments from the 5' UTR, capsid, anchored capsid protein, membrane glycoprotein precursor (prM), Envelope protein (ENV), Nonstructural protein NS1, Nonstructural protein NS2A, Nonstructural protein NS3, RNA-dependent RNA polymerase NS5 and 3' UTR regions.	Vector-borne Disease Research
<u>VR-3253SD</u> ™	Yellow fever virus	Fragments from the capsid protein C, Pre-M, Envelope protein, NS1, NS2A, NS3, and NS5 regions.	Vector-borne Disease Research
<u>VR-3252SD</u> ™	Zika virus	Fragments from the membrane glycoprotein precursor M, Envelope, NS1, NS2B, NS3, NS4B, and NS5 regions	Vector-borne Disease Research
<u>VR-3268SD</u> ™	Lassa virus	Fragments from 5' UTR and glycoprotein regions	Zoonotic Disease Research

Table 1: Quantitative Synthetic Nucleic Acids

ATCC® No.	Organism	Source Information	Research Applications
<u>VR-3269SD</u> ™	Nipah virus	Complete nucleocapsid protein and fragments from the	Zoonotic Disease Research
		matrix and glycoprotein regions	

## **GENOMIC NUCLEIC ACIDS**

ATCC genomic nucleic acids are whole genome preparations aseptically prepared from minimally passaged ATCC® Genuine Cultures. Each preparation is supported by stringent quality control testing to ensure product authenticity and functionality, including one or more of the following analyses:

- Agarose gel electrohoresis to ensure integrity
- Spectrophotometry to evaluate purity
- Droplet Digital<sup>™</sup> PCR (ddPCR<sup>™</sup>) to calculate concentration
- PCR to confirm functional activity
- Sequencing and short tandem repeat analyses confirm species identity

Further, each of our products is manufactured under ISO 9001 certified and ISO/IEC 17025 accredited processes, so you can trust your results and reproduce your data – every time.

Table 2: Quantitative Genomic Nucleic Acids

ATCC® No.	Organism	Source Information	Research Applications
<u>1015DQ</u> ™	Aspergillus niger		Agricultural Research
<u>177525DQ</u> ™	Megasphaera elsdenii		Agricultural Research
<u>9649DQ</u> ™	Lactobacillus delbrueckii subsp. delbrueckii	Sour grain mash	Biotechnology Research
<u>17023DQ</u> ™	Rhodobacter sphaeroides		Biotechnology Research
<u>VR-538DQ</u> ™	Human herpesvirus 5	Adenoid tissue from 7-year-old female	Blood-related Disease Research
<u>VR-1367DQ</u> ™	Human herpesvirus 3 (Varicella-zoster virus)	Vesicular fluid from child with chickenpox; Georgia	Blood-related Disease Research
700532DQ™	Neisseria meningitidis	Patient with meningococcal <i>septica</i> emia	Blood-related Disease Research
<u>12453DQ</u> ™	Proteus mirabilis		Blood-related Disease Research
<u>25285DQ</u> ™	Bacteroides fragilis	Appendix abscess	Digestive System Disease Research
<u>50608DQ</u> ™	Blastocystis hominis	Isolated 1986	Digestive System Disease Research
<u>33559DQ</u> ™	Campylobacter coli	Pig feces	Digestive System Disease Research
<u>700819DQ</u> ™	Campylobacter jejuni subsp. jejuni	Human feces	Digestive System Disease Research
<u>750DQ</u> ™	Candida tropicalis	Patient with bronchomycosis	Digestive System Disease Research
<u>66029DQ</u> ™	Candida tropicalis		Digestive System Disease Research
<u>8090DQ</u> ™	Citrobacter freundii		Digestive System Disease Research
<u>43598DQ</u> ™	Clostridioides difficile	Human feces, asymptomatic neonate, Belgium	Digestive System Disease Research
<u>BAA-1382DQ</u> ™	Clostridioides difficile	Clinical isolate; Switzerland	Digestive System Disease Research
<u>BAA-1870DQ</u> ™	Clostridioides difficile		Digestive System Disease Research
<u>13124DQ</u> ™	Clostridioides perfringens	Clinical isolate, Switzerland	Digestive System Disease Research
PRA-67DQ™	Cryptosporidium parvum	Animal feces; 2002	Digestive System Disease Research
30459DQ™	Entamoeba histolytica	Colonic biopsy of rectal ulcer from adult human male with amebic dysentery; Mexico City, Mexico, 1967	Digestive System Disease Research
700802DQ™	Enterococcus faecalis	Human blood, patient, St. Louis, Missouri, US, 1987	Digestive System Disease Research
700221DQ™	Enterococcus faecium	Human feces, Connecticut	Digestive System Disease Research
<u>8739DQ</u> ™	Escherichia coli	Feces	Digestive System Disease Research
<u>11229DQ</u> ™	Escherichia coli		Digestive System Disease Research
<u>10798DQ</u> ™	Escherichia coli	Feces from diphtheria convalescent	Digestive System Disease Research
<u>25922DQ</u> ™	Escherichia coli 06	Clinical isolate	Digestive System Disease Research
43895DQ <sup>™</sup>	Escherichia coli 0157:H7	Raw hamburger meat implicated in a hemorrhagic <i>coli</i> tis outbreak	Digestive System Disease Research
700926DQ™	Escherichia coli	Derived from parent strain W1485 by acridine orange curing of the F plasmid	Digestive System Disease Research

Table 2: Quantitative Genomic Nucleic Acids

ATCC® No.	Organism	Source Information	Research Applications
<u>700928DQ</u> ™	Escherichia coli	Human clinical specimen, blood and urine from a women with acute pyelonephritis, Baltimore, Maryland	Digestive System Disease Research
BAA-2192DQ™	Escherichia coli 0145:Nonmotile	Human stool, South Dakota, USA	Digestive System Disease Research
BAA-2193DQ™	Escherichia coli 045:H2	Stool, Maine	Digestive System Disease Research
BAA-2196DQ™	Escherichia coli 026:H11	Stool, Michigan	Digestive System Disease Researc
BAA-2215DQ™	Escherichia coli 0103:H11	Idaho	Digestive System Disease Research
BAA-2219DQ™	Escherichia coli 0121:H19	Human stool, Virginia	Digestive System Disease Research
BAA-2326DQ™	Escherichia coli 0104:H4	Stool sample from patient with hemolytic uremic syndrome, 2011	Digestive System Disease Research
BAA-2440DQ™	Escherichia coli 0111	Human	Digestive System Disease Research
29212DQ™	Enterococcus faecalis	Urine	Digestive System Disease Researc
27766DQ™	Faecalibacterium prausnitzii	Human feces	Digestive System Disease Researc
30888DQ™	Giardia intestinalis	Human female, Portland, OR, 1971	Digestive System Disease Researc
43504DQ™	Helicobacter pylori	Gastric antrum	Digestive System Disease Researc
700392DQ™	Helicobacter pylori	Stomach of a human patient with gastritis; UK	Digestive System Disease Researc
VR-930DQ™	Human adenovirus 41	Feces from child with gastroenteritis, Netherlands, 1973	Digestive System Disease Researc
<u>√R-1775DQ</u> ™	Human Enterovirus 71	Stool sample from 2-month-old male with aseptic meningitis	Digestive System Disease Researc
<u>√R-931DQ</u> ™	Human mastadenovirus F	Feces, infantile gastroenteritis, Netherlands, 1979	Digestive System Disease Researc
BAA-679DQ™	Listeria monocytogenes	Tissue, animal - rabbit, Cambridge United Kingdom, 1924	Digestive System Disease Researc
25830DQ™	Morganella morganii subsp. morganii	Patient with summer diarrhea	Digestive System Disease Researc
BAA-968D™	<i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i>	Animal feces; Wisconsin, 1990	Digestive System Disease Research
/R-824DQ™	Reovirus 3	Child with diarrhea	Digestive System Disease Researc
/R-2018DQ™	Rotavirus A	Diarrhea stool from patient positive for rotavirus	Digestive System Disease Researc
<u>13311DQ</u> ™	Salmonella enterica subsp. enterica serovar Typhimurium	Feces, food poisoning	Digestive System Disease Researc
14028DQ™	Salmonella enterica subsp. enterica serovar Typhimurium	Tissue from pools of heart and liver from 4-week-old chickens	Digestive System Disease Researc
700720DQ™	Salmonella enterica subsp. enterica serovar Typhimurium	Wild type strain isolated from a natural source; 1948	Digestive System Disease Researc
BAA-611DQ™	Streptococcus agalacitae	Clinical specimen, Human	Digestive System Disease Researc
PRA-310DQ™	Toxoplasma gondii	Derived from in vivo RH strain ATCC 50174	Digestive System Disease Research
<u>39315DQ</u> ™	Vibrio cholerae	Stool from cholera patient, Bangladesh	Digestive System Disease Researc
<u>17978DQ</u> ™	Acinetobacter baumannii	Fatal meningitis of a 4-month old infant	Epitermal Disease Research
<u>10231DQ</u> ™	Candida albicans	Man with bronchomycosis	Epidermal Disease Research
22019DQ™	Candida parapsilosis	Case of sprue, Puerto Rico	Epidermal Disease Research
6919DQ™	Cutibacterium acnes	Facial acne	Epidermal Disease Research
VR-1432DQ <sup>™</sup>	Human enterovirus 71	Vesicular fluid from an adult female with hand, foot, and mouth disease, Wuhan, China.	Epidermal Disease Research
VR-1467DQ™	Human herpesvirus 6B	Peripheral blood lymphocytes from a 36 year-old male AIDS patient, Zaire, Africa	Epidermal Disease Research
47085DQ™	Pseudomonas aeruginosa		Epidermal Disease Research
9027DQ™	Pseudomonas aeruginosa	Outer ear infection	Epidermal Disease Research
<u>6538DQ</u> ™	Staphyloccocus <i>aureus</i>	Human lesion	Epidermal Disease Research
25923DQ™	Staphylococcus aureus subsp. aureus	Clinical Isolate	Epidermal Disease Research
<u>29213DQ</u> ™	Staphylococcus aureus subsp. aureus	Wound	Epidermal Disease Research
<u>43300DQ</u> ™	Staphylococcus aureus subsp. aureus	Clinical isolate, Kansas	Epidermal Disease Research
700699DQ™	Staphylococcus aureus subsp. aureus	Isolated from pus and debrided tissue at surgical incision in sternum of 4 month-old infant; Japan, 1996	Epidermal Disease Research
BAA-1556DQ™	Staphylococcus aureus subsp. aureus	Wrist abcess, 36-year-old HIV+ man with history of IV drug use	Epidermal Disease Research

Table 2: Quantitative Genomic Nucleic Acids

ATCC <sup>®</sup> No.	Organism	Source Information	Research Applications
BAA-1717DQ™	Staphylococcus aureus subsp. aureus	From adolescent patient with severe sepsis syndrome; Texas Children's Hospital	Epidermal Disease Research
BAA-1718DQ™	<b>Staphylococcus aureus</b> subsp. <b>aureus</b>	From a 12-year-old white female with a buttock abscess	Epidermal Disease Research
12228DQ™	Staphylococcus epidermidis		Epidermal Disease Research
19615DQ™	Streptococcus pyogenes	Pharynx of child following episode of sore throat.	Epidermal Disease Research
700294DQ™	Streptococcus pyogenes	Infected wound	Epidermal Disease Research
10240DQ™	Micrococcus luteus	Air	Microbiome Research
47011T1-DQ™	Escherichia coli with ATCC 16S Tag 1		Metagenomics Research
BAA-2975T3-DQ <sup>™</sup>	<b>Staphylococcus aureus</b> with ATCC 16S Tag 3		Metagenomics Research
3624T2-DQ™	Clostridium perfringens with ATCC 16S Tag 2		Metagenomics Research
204508DQ™	Saccharomyces cerevisiae	Wild type strain	Molecular Research
MYA-4941DQ™	Saccharomyces cerevisiae	Parent strain used Saccharoymes <i>cerevisiae</i> BJ5465	Molecular Research
/R-1583DQ™	JC polyomavirus	Brain tumor of owl monkey	Neural Research
MYA-646DQ™	Candida dubliniensis	Oral cavity of HIV-infected patient, Dublin, Ireland	Oral Health Research
43037DQ™	Eubacterium nodatum	Subgingival region of mouth	Oral Health Research
25586DQ™	Fusobacterium nucleatum subsp. nucleatum	Cervico-facial lesion	Oral Health Research
43037DQ™	Tannerella forsythia	Human periodontal pocket, Massachusetts, US	Oral Health Research
35405DQ™	Treponema denticola	Human periodontal pocket, Montreal, Canada	Oral Health Research
9643DQ™	Aspergillus flavus	Shoe sole, New Guinea	Opportunistic Pathogen Researc
L9146DQ™	Brevundimonas diminuta	Contaminant in culture of <i>Bacillus cereus</i>	Opportunistic Pathogen Researc
MYA-2876DQ™	Candida albicans	Human clinical specimen	Opportunistic Pathogen Researc
2001DQ™	Candida glabrata	Feces	Opportunistic Pathogen Researc
32196DQ™	Candida krusei	Cabbage frass, Japan	Opportunistic Pathogen Researc
34449DQ™	Candida lusitaniae	Pig, Portugal	Opportunistic Pathogen Researc
13047DQ™	Enterobacter cloacae subsp. cloacae	Spinal fluid	Opportunistic Pathogen Researc
29905DQ™	Proteus vulgaris		Opportunistic Pathogen Researc
29914DQ™	Providencia stuartii		Opportunistic Pathogen Researc
L5442DQ™	Pseudomonas aeruginosa		Opportunistic Pathogen Researc
27853DQ™	Pseudomonas aeruginosa	Blood culture	Opportunistic Pathogen Researc
3AA-2793DQ™	Pseudomonas aeruginosa	Urine from a 26-year-old female, Chile, 2014	Opportunistic Pathogen Researc
7830DQ™	Lactobacillus leichmannii	·	Probiotic Research
3014DQ™	Lactobacillus plantarum		Probiotic Research
 6633DQ™	Bacillus spizizenii		Quality Control
 11437DQ™	Clostridium sporogenes	Cotton plant	Quality Control
19404DQ™	Clostridium sporogenes	Human with an acute case of gas gangrene	Quality Control
L0541DQ™	Enterococcus hiraei	3 3 3	Quality Control
L022DQ™	Aspergillus fumigatus	Lung of chicken, Connecticut	Respiratory Disease Research
20542DQ™	Aspergillus terreus	-	Respiratory Disease Research
/R-1558DQ™	Betacoronavirus 1	Man with cold-like illness	Respiratory Disease Research
-617DQ™	Bordetella bronchiseptica		Respiratory Disease Research
51541DQ™	Bordetella holmesii	Animal blood, Buffalo, New York, USA	Respiratory Disease Research
<u>15311DQ™</u>	Bordetella parapertussis	Whooping cough	Respiratory Disease Research
9797DQ™	Bordetella pertussis	pg 000g.	Respiratory Disease Research
BAA-589DQ™	Bordetella pertussis	Human clinical specimen	Respiratory Disease Research
25416DQ™	Burkholderia cepacia	Plant-derived foodstuff - onion, <i>Allium cepa</i>	Respiratory Disease Research
	Chlamydophila pneumoniae	Throat of student with acute pharyngitis, Seattle, WA, 1983	Respiratory Disease Research
53592DQ™			

Table 2: Quantitative Genomic Nucleic Acids

VB-22282D07***         Chlasyptophila preumoniae         Conjunctiva at a child         Respiratory Disease Research visit (Party Party	ATCC® No.	Organism	Source Information	Research Applications
Nasaf-pharynead-seab of hospitalized 10-month-old female with preumonia, California, 1952   Respiratory Disease Research With Disease Place of the Part of the P	<u>VR-2282DQ</u> ™	Chlamydophila pneumoniae	Conjunctiva of a child	Respiratory Disease Research
Manual Programme   Adenoid tissue from five-year-hold child with hypertraphied   Respiratory Disease Research	VR-1826DQ™			
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VR-1882DQ™Influenza A virus (H3N2)Human in Wisconsin, USA, on June 7, 2009Respiratory Disease ResearchVR-101DQ™Influenza B virusPatient in New York, 1940Respiratory Disease ResearchVR-823DQ™Influenza B virusNot knownRespiratory Disease ResearchVR-1804DQ™Influenza B virusHuman, Florida, 2006Respiratory Disease ResearchVR-1883DQ™Influenza B virusHuman in Wisconsin, USA on February 20, 2010.Respiratory Disease ResearchVR-1885DQ™Influenza B virusClassical reassortant virus derived from B/Wisconsin/1/2010 (Yamagata Lineage) and B/Lee/1940Respiratory Disease Research13048DQ™Klebsiella aerogenesSputumRespiratory Disease ResearchBAA-1705DQ™Klebsiella pneumoniaeUrine from a 42-year-old human male; 2007 CAP SurveyRespiratory Disease ResearchBAA-2782DQ™Klebsiella pneumoniaePeritoneal fluidRespiratory Disease Research13883DQ™Klebsiella pneumoniae subsp.Respiratory Disease Research	VR-1893DQ™	Influenza A virus (H1N1)	Human in Florida, USA on October 31, 2006	Respiratory Disease Research
VR-101DQ™Influenza B virusPatient in New York, 1940Respiratory Disease ResearchVR-823DQ™Influenza B virusNot knownRespiratory Disease ResearchVR-1804DQ™Influenza B virusHuman, Florida, 2006Respiratory Disease ResearchVR-1883DQ™Influenza B virusHuman in Wisconsin, USA on February 20, 2010.Respiratory Disease ResearchVR-1885DQ™Influenza B virusClassical reassortant virus derived from B/Wisconsin/1/2010 (Yamagata Lineage) and B/Lee/1940Respiratory Disease Research13048DQ™Klebsiella aerogenesSputumRespiratory Disease ResearchBAA-1705DQ™Klebsiella pneumoniaeUrine from a 42-year-old human male; 2007 CAP SurveyRespiratory Disease ResearchBAA-2782DQ™Klebsiella pneumoniaePeritoneal fluidRespiratory Disease Research13883DQ™Klebsiella pneumoniae subsp.Respiratory Disease Research	<u>VR-1894DQ</u> ™	Influenza A virus (H1N1)	Human in California, USA on April 9, 2009	Respiratory Disease Research
VR-823DQ™Influenza B virusNot knownRespiratory Disease ResearchVR-1804DQ™Influenza B virusHuman, Florida, 2006Respiratory Disease ResearchVR-1883DQ™Influenza B virusHuman in Wisconsin, USA on February 20, 2010.Respiratory Disease ResearchVR-1885DQ™Influenza B virusClassical reassortant virus derived from B/Wisconsin/1/2010 (Yamagata Lineage) and B/Lee/1940Respiratory Disease Research13048DQ™Klebsiella aerogenesSputumRespiratory Disease ResearchBAA-1705DQ™Klebsiella pneumoniaeUrine from a 42-year-old human male; 2007 CAP SurveyRespiratory Disease ResearchBAA-2782DQ™Klebsiella pneumoniaePeritoneal fluidRespiratory Disease Research13883DQ™Klebsiella pneumoniae subsp.Respiratory Disease Research	VR-1882DQ™	Influenza A virus (H3N2)	Human in Wisconsin, USA, on June 7, 2009	Respiratory Disease Research
VR-1804DQ™Influenza B virusHuman, Florida, 2006Respiratory Disease ResearchVR-1883DQ™Influenza B virusHuman in Wisconsin, USA on February 20, 2010.Respiratory Disease ResearchVR-1885DQ™Influenza B virusClassical reassortant virus derived from B/Wisconsin/1/2010Respiratory Disease Research13048DQ™Klebsiella aerogenesSputumRespiratory Disease ResearchBAA-1705DQ™Klebsiella pneumoniaeUrine from a 42-year-old human male; 2007 CAP SurveyRespiratory Disease ResearchBAA-2782DQ™Klebsiella pneumoniaePeritoneal fluidRespiratory Disease Research13883DQ™Klebsiella pneumoniae subsp.Respiratory Disease Research	VR-101DQ™	Influenza B virus	Patient in New York, 1940	Respiratory Disease Research
VR-1883DQ™Influenza B virusHuman in Wisconsin, USA on February 20, 2010.Respiratory Disease ResearchVR-1885DQ™Influenza B virusClassical reassortant virus derived from B/Wisconsin/1/2010 (Yamagata Lineage) and B/Lee/1940Respiratory Disease Research13048DQ™Klebsiella aerogenesSputumRespiratory Disease ResearchBAA-1705DQ™Klebsiella pneumoniaeUrine from a 42-year-old human male; 2007 CAP SurveyRespiratory Disease ResearchBAA-2782DQ™Klebsiella pneumoniaePeritoneal fluidRespiratory Disease Research13883DQ™Klebsiella pneumoniae subsp.Respiratory Disease Research	VR-823DQ™	Influenza B virus	Not known	Respiratory Disease Research
VR-1885DQ™ Influenza B virus Classical reassortant virus derived from B/Wisconsin/1/2010 Respiratory Disease Research (Yamagata Lineage) and B/Lee/1940  Respiratory Disease Research (Yamaga	VR-1804DQ™	Influenza B virus	Human, Florida, 2006	Respiratory Disease Research
(Yamagata Lineage) and B/Lee/1940  13048DQ™ Klebsiella aerogenes Sputum Respiratory Disease Research  BAA-1705DQ™ Klebsiella pneumoniae Urine from a 42-year-old human male; 2007 CAP Survey Respiratory Disease Research  BAA-2782DQ™ Klebsiella pneumoniae Peritoneal fluid Respiratory Disease Research  13883DQ™ Klebsiella pneumoniae subsp. Respiratory Disease Research	VR-1883DQ™	Influenza B virus	Human in Wisconsin, USA on February 20, 2010.	Respiratory Disease Research
BAA-1705DQ™ Klebsiella pneumoniae Urine from a 42-year-old human male; 2007 CAP Survey Respiratory Disease Research  BAA-2782DQ™ Klebsiella pneumoniae Peritoneal fluid Respiratory Disease Research  Klebsiella pneumoniae subsp. Respiratory Disease Research	VR-1885DQ™	Influenza B virus		Respiratory Disease Research
BAA-2782DQ™ Klebsiella pneumoniae Peritoneal fluid Respiratory Disease Research  13883DQ™ Klebsiella pneumoniae subsp. Respiratory Disease Research	13048DQ™	Klebsiella aerogenes		Respiratory Disease Research
13883DQ <sup>™</sup> Klebsiella pneumoniae subsp. Respiratory Disease Research	<u>BAA-1705DQ</u> ™	Klebsiella pneumoniae	Urine from a 42-year-old human male; 2007 CAP Survey	Respiratory Disease Research
<u>13883DQ</u> ™ <i>Klebsiella pneumoniae</i> subsp. Respiratory Disease Research	BAA-2782DQ™	Klebsiella pneumoniae	Peritoneal fluid	Respiratory Disease Research
	<u>13883DQ</u> ™	Klebsiella pneumoniae subsp.		Respiratory Disease Research

Table 2: Quantitative Genomic Nucleic Acids

ATCC <sup>®</sup> No.	Organism	Source Information	Research Applications
700721DQ™	Klebsiella pneumoniae subsp. pneumoniae	Sputum from a 66 year-old man, 1994	Respiratory Disease Research
700603DQ™	Klebsiella quasipneumoniae	Urine from a hospitalized patient, Virginia	Respiratory Disease Research
33152DQ™	<b>Legionella pneumophila</b> subsp. <b>pneumophila</b>	Human lung	Respiratory Disease Research
25238DQ™	Moraxella catarrhalis		Respiratory Disease Research
VR-106DQ™	Mumps virus	Pooled saliva from patients, Massachusetts	Respiratory Disease Research
25420DQ™	Mycobacterium africanum	Expectorate; senegalese with pulmonary TB	Respiratory Disease Research
35734D™	Mycobacterium bovis	Bovine milk	Respiratory Disease Research
BAA-1052DQ™	Mycobacterium talmoniae	Clinical human specimen, July 31, 2000	Respiratory Disease Research
19422DQ™	Mycobacterium microti		Respiratory Disease Research
BAA-688DQ™	Mycobacterium pinnipedii	Clinical animal specimen, Australia, 1986	Respiratory Disease Research
25177DQ™	Mycobacterium tuberculosis		Respiratory Disease Research
25618DQ™	Mycobacterium tuberculosis	Derived from existing strain; New York, 1934	Respiratory Disease Research
<u>/R-907DQ</u> ™	Sendai virus	Early history of this Helsinki laboratory strain is not clear	Respiratory Disease Research
700669DQ™	Streptococcus pneumoniae	Hospital, Barcelona, Spain, 1984	Respiratory Disease Research
VR-5DQ ™	Human adenovirus 5	Spontaneously degenerating tissue culture of adenoid tissue from a 4-year-old girl with chronically infected tonsils	Respiratory Disease Research
VR-92DQ™	Human parainfluenza virus 2	11-month-old female with acute laryngotracheobronchitis, Ohio, 1955	Respiratory Disease Research
VR-283DQ™	Human rhinovirus 16	Throat swab from healthy 2-year-old female, Washington, DC, 1960	Respiratory Disease Research
29342DQ™	Mycoplasma pneumoniae	Patient with pneumonia	Respiratory Disease Research
BAA-55DQ™	Atopobium vaginae	Vaginal flora from a healthy woman, Sweden, 1998	Reproductive Health Research
VR-901BD™	<b>Chlamydia trachomatis</b> LGV Serovar I	Lymph node from human with LGV	Reproductive Health Research
<u>VR-903D</u> ™	<i>Chlamydia trachomatis</i> LGV Serovar III	Lymph node from human with LGV	Reproductive Health Research
VR-902BD™	<i>Chlamydia trachomatis</i> LGV Serovar II	Bubo from human with LGV	Reproductive Health Research
VR-885DQ™	<i>Chlamydia trachomatis</i> Serovar D	Human cervix, asymptomatic	Reproductive Health Research
14019DQ™	Gardnerella vaginalis	Vaginal secretions	Reproductive Health Research
49145DQ™	Gardnerella vaginalis	Clinical isolate	Reproductive Health Research
33940DQ™	Haemophilus ducreyi		Reproductive Health Research
/R-539DQ™	Human Herpesvirus 1	Brain, human, encephalitis	Reproductive Health Research
√R-1493DQ™	Human Herpesvirus 1	Lip lesion of human with cold sore	Reproductive Health Research
VR-540DQ™	Human Herpesvirus 2	Brain of a 50 year old female with multiple sclerosis; Iceland	Reproductive Health Research
<u>√R-734DQ</u> ™	Human Herpesvirus 2	Human genital infection	Reproductive Health Research
33820DQ™	Lactobacillus crispatus		Reproductive Health Research
33323DQ™	Lactobacillus gasseri		Reproductive Health Research
55195DQ™	Lactobacillus iners	Patient with bacterial vaginosis	Reproductive Health Research
25258DQ™	Lactobacillus jensenii	Human vaginal discharge	Reproductive Health Research
35241DQ™	Mobiluncus curtisii	Human vagina	Reproductive Health Research
5243DQ™	Mobiluncus mulieris	Human vagina	Reproductive Health Research
3530DQ™	Mycoplasma genitalium	Urethra of male with non-gonococcal urethritis	Reproductive Health Research
23114DQ™	Mycoplasma hominis	Rectal swab	Reproductive Health Research
	Neisseria gonorrhoeae	Male patient with disseminated gonococcal infection; 1983	Reproductive Health Research
29303DQ™	Prevotella bivia	Endometrium	Reproductive Health Research
15305DQ™	Staphylococcus saprophyticus subsp. saprophyticus	Urine	Reproductive Health Research
13813DQ™	Streptococcus agalactiae		Reproductive Health Research
30001DQ™	Trichomonas vaginalis	Vaginal exudate from human with acute vaginitis, 1956	Reproductive Health Research
	J .	Human blood, Washington state, 1991	

Table 2: Quantitative Genomic Nucleic Acids

ATCC <sup>®</sup> No.	Organism	Source Information	Research Applications
PRA-398DQ™	Babesia microti	Blood, human babesiosis, Nantucket, MA, 1983	Vector-borne Disease Research
35210DQ™	Borrelia burgdorferi	Tick, Ixodes dammini; New York	Vector-borne Disease Research
<u>30012DQ</u> ™	Leishmania major	Human, Teheran, Iran, 1949	Vector-borne Disease Research
PRA-405DQ™	Plasmodium falciparum		Vector-borne Disease Research
30266DQ™	Trypanosoma cruzi	Triatoma <i>infestans</i> , Chile, 1945	Vector-borne Disease Research
<u>VR-1838DQ</u> ™	Zika virus	Blood of a rhesus monkey that became infected while stationed as a sentinel in forest near Entebbe, Uganda, 1947	Vector-borne Disease Research
VR-1843DQ™	Zika virus	Human serum specimen, Puerto Rico, December 2015	Vector-borne Disease Research
15597-B1DQ™	<i>Escherichia coli</i> bacteriophage MS2		Water Contamination
<u>30174D</u> ™	Naegleria fowleri	Human spinal fluid; Orlando, FL, 1968	Water Contamination

### **CERTIFIED REFERENCE MATERIALS**

ATCC Certified Reference Materials (CRMs) are quantified and produced under an ISO 17034 accredited process to confirm identity, well-defined characteristics, and an established chain of custody. These tools are ideal for:

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Validating or comparing test methods

CRMs offer the highest level of quality assurance, accuracy, and traceability, providing you with complete confidence that your results are reliable and reproducible.

ATCC® No.	Organism	Source Information
<u>qCRM-15531D</u> ™	Mycoplasma pneumoniae	Isolated by Hayflick from monkey kidney tissue-culture fluids of the FH strain (Eaton Agent Virus) supplied by C. Liu, who recovered this strain in embryonated eggs from a student with atypical pneumonia
<u>qCRM-17981D</u> ™	Mycoplasma hyorhinis	Nasal cavity of pig
<u>qCRM-19610D</u> ™	Mycoplasma gallisepticum	Suspension of tracheal and airsac tissues of chickens with chronic respiratory disease
<u>qCRM-19989D</u> ™	Mycoplasma fermentans	Ulcerative balanitis
<u>qCRM-23064D</u> ™	Mycoplasma salivarium	Saliva
<u>qCRM-23206D</u> ™	Acholeplasma laidlawii	Sewage
<u>qCRM-23714D</u> ™	Mycoplasma orale	Oropharynx of child, Washington, DC
<u>qCRM-23838D</u> ™	Mycoplasma arginine	Mouse brain experimentally infected with scrapies
<u>qCRM-25204D</u> ™	Mycoplasma synoviae	Hock joint of chicken
<u>qCRM-27545D</u> ™	Mycoplasma hominis	Human blood culture





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