

Use the gold standard controls in PCR

# DNA/RNA Controls

PCR controls containing complete purified DNA or RNA from a wide range of infectious agents

VIRCELL's new range of DNA and RNA controls has been developed to allow the amplification and testing of any region of the genome which is present in natural infections.

Our controls are obtained from virus-infected cells and bacteria, serving as positive controls in nucleic acid amplification reactions, as well as controls for the detection of viral and bacterial sequences in nucleic acid hybridization reactions.

## INTENDED USE

Positive controls in conventional and RT-PCR or amplification of the genotype of interest.

## PRESENTATION

Lyophilized controls for reconstitution in sterile bidistilled water.

## PREPARATION

The DNA and RNA controls have been isolated from cultures and confirmed by PCR using specific oligonucleotides, obtained from sequences publicly available.

## CONCENTRATION

50 ng/ $\mu$ l and 12.500 copies/ $\mu$ l, for the quantified controls, when reconstituted.

## SHELF LIFE

2 years for DNA and 1 year for RNA, as long as they are kept frozen as indicated in their instructions for use.

## STORAGE

On receipt, users are advised to reconstitute the controls, make aliquots, and store them at temperatures between -5 and -40°C for DNA and between -70 and -90°C for RNA.

The response of the controls after repeated freeze/ thaw cycles has been tested and both, DNA and RNA, maintain their quality and performance. Still, we recommend users to avoid unnecessary freezing and thawing, in order to prevent degradation or contamination of the controls.

# Avoid variability factors!

Vircell has developed a wide portfolio offering the complete genome (DNA or RNA purified) of **more than 70 infectious agents**. These products can be used as positive controls for conventional and RT-PCR.

Product	Cat. No.	Product	Cat. No.
ACANTHAMOEBA CASTELLANI DNA CONTROL	MBC054	INFLUENZA A H1 RNA CONTROL	MBC028 <i>quantified</i>
ADENOVIRUS DNA CONTROL	MBC001 <i>quantified</i>	INFLUENZA A H3 RNA CONTROL	MBC029 <i>quantified</i>
ASPERGILLUS FUMIGATUS DNA CONTROL	MBC002	INFLUENZA A H5 RNA CONTROL	MBC052 <i>quantified</i>
BACILLUS CEREUS DNA CONTROL	MBC004	INFLUENZA B RNA CONTROL	MBC030 <i>quantified</i>
BARTONELLA HENSELAE DNA CONTROL	MBC005	LEGIONELLA PNEUMOPHILA DNA CONTROL	MBC031 <i>quantified</i>
BARTONELLA QUINTANA DNA CONTROL	MBC006	LEISHMANIA CHAGASI DNA CONTROL	MBC060
BK VIRUS DNA CONTROL	MBC051 <i>quantified</i>	LEISHMANIA INFANTUM DNA CONTROL	MBC032
BORDETELLA PARAPERTUSSIS DNA CONTROL	MBC007	LISTERIA MONOCYTOGENES DNA CONTROL	MBC033
BORDETELLA PERTUSSIS DNA CONTROL	MBC008	MEASLES RNA CONTROL	MBC046
BORRELIA AFZELII DNA CONTROL	MBC078 <i>quantified</i>	MUMPS RNA CONTROL	MBC040
BORRELIA BURGDORFERI DNA CONTROL	MBC076 <i>quantified</i>	MYCOBACTERIUM TUBERCULOSIS DNA CONTROL	MBC034 <i>quantified</i>
BORRELIA GARINII DNA CONTROL	MBC077 <i>quantified</i>	MYCOPLASMA PNEUMONIAE DNA CONTROL	MBC035 <i>quantified</i>
BRUCELLA ABORTUS DNA CONTROL	MBC009	NEISSERIA GONORRHOEAE DNA CONTROL	MBC075 <i>quantified</i>
CANDIDA ALBICANS DNA CONTROL	MBC010	NEISSERIA MENINGITIDIS SEROGROUP A DNA CONTROL	MBC036
CHLAMYDIA TRACHOMATIS DNA CONTROL	MBC012 <i>quantified</i>	NEISSERIA MENINGITIDIS SEROGROUP B DNA CONTROL	MBC066
CHLAMYDOPHILA PNEUMONIAE DNA CONTROL	MBC011 <i>quantified</i>	NEISSERIA MENINGITIDIS SEROGROUP C DNA CONTROL	MBC053
CHLAMYDOPHILA PSITTACI DNA CONTROL	MBC013	NOVEL INFLUENZA A H1N1 (plasmid) DNA CONTROL	MBC081 <i>quantified</i>
COCCIDIODES IMMITIS DNA CONTROL	MBC014	NOVEL INFLUENZA A H1N1 RNA CONTROL	MBC082 <i>quantified</i>
COXIELLA BURNETII DNA CONTROL	MBC018	PAPILLOMAVIRUS TYPE 16 (Ca Ski cells) DNA CONTROL	MBC067
COXSACKIE A6 RNA CONTROL	MBC063	PAPILLOMAVIRUS TYPE 18 (HeLa cells) DNA CONTROL	MBC068
COXSACKIE B1 RNA CONTROL	MBC061	PARAINFLUENZA 1 RNA CONTROL	MBC037
COXSACKIE B5 RNA CONTROL	MBC062	PARAINFLUENZA 2 RNA CONTROL	MBC038
CRYPTOCOCCUS NEOFORMANS DNA CONTROL	MBC015	PARAINFLUENZA 3 RNA CONTROL	MBC039
CYTOMEGALOVIRUS DNA CONTROL	MBC016 <i>quantified</i>	PARVOVIRUS B19 (plasmid) DNA CONTROL	MBC080 <i>quantified</i>
DENGUE 1 VIRUS RNA CONTROL	MBC055	RESPIRATORY SYNCYTIAL VIRUS RNA CONTROL	MBC041
DENGUE 2 VIRUS RNA CONTROL	MBC056	RICKETTSIA CONORII DNA CONTROL	MBC042
DENGUE 3 VIRUS RNA CONTROL	MBC057	SALMONELLA TYPHI DNA CONTROL	MBC044
DENGUE 4 VIRUS RNA CONTROL	MBC058	SARS CORONAVIRUS (plasmid) DNA CONTROL	MBC017 <i>quantified</i>
ECHOVIRUS 5 RNA CONTROL	MBC064	STAPHYLOCOCCUS AUREUS (mecA-) DNA CONTROL	MBC073
ENTEROVIRUS 71 RNA CONTROL	MBC019	STAPHYLOCOCCUS AUREUS (mecA+) DNA CONTROL	MBC074
EPSTEIN-BARR VIRUS DNA CONTROL	MBC065 <i>quantified</i>	STREPTOCOCCUS AGALACTIAE DNA CONTROL	MBC071 <i>quantified</i>
HAEMOPHILUS DUCREYI DNA CONTROL	MBC021	STREPTOCOCCUS PNEUMONIAE DNA CONTROL	MBC070
HAEMOPHILUS INFLUENZAE DNA CONTROL	MBC020	TOXOPLASMA GONDII DNA CONTROL	MBC047 <i>quantified</i>
HERPES SIMPLEX 1 DNA CONTROL	MBC023 <i>quantified</i>	TRICHOMONAS VAGINALIS DNA CONTROL	MBC079 <i>quantified</i>
HERPES SIMPLEX 2 DNA CONTROL	MBC024 <i>quantified</i>	TRYPANOSOMA CRUZI DNA CONTROL	MBC059
HHV-6 DNA CONTROL	MBC025 <i>quantified</i>	VARICELLA-ZOSTER VIRUS DNA CONTROL	MBC048 <i>quantified</i>
		WEST NILE VIRUS RNA CONTROL	MBC069

At Vircell we seek for innovation and our R&D Department is always working in new developments. Please, consult our website for updated information about our available products.

Designed and produced by



Pol. Ind. Dos de Octubre. Plza. Domínguez Ortiz, 1. 18320 Santa Fé. Granada. Spain  
Tel: +34 958 441264 Fax: +34 958 510712 sales@vircell.com [www.vircell.com](http://www.vircell.com)