

## AMPLIRUN® TOTAL CMV CONTROL (PLASMA)

### For research use only

**MBTC018-R:** Inactivated cytomegalovirus (CMV) formulated in human plasma specimen and intended to validate and control sample processing, analysis and detection in nucleic acid assays using the product as an external run control.

#### CHARACTERISTICS:

The content is lyophilized. It is necessary to reconstitute it before use (refer to "Preparation of the reagents"). Total Controls are designed for single use, excess material should be discarded. Nucleic acid detection requires an extraction step that releases DNA/RNA for amplification and detection.

#### Product description:

CMV: Viral particles obtained from in vitro cultivated MRC-5 infected cells. Viruses are inactivated rendering them non-infectious and diluted in human plasma.

#### KIT CONTENTS:

**1** VIRCELL TOTAL CMV CONTROL (PLASMA): 10 vials with lyophilized cytomegalovirus (4000-10000 copies/vial). Batch concentration is provided in Certificate of Analysis.

AMPLIRUN®TOTAL CMV CONTROL (PLASMA) is intended to be used as a secondary reference material for routine control of CMV NAT assays, both extraction and amplification steps. 1st WHO International Standard for Cytomegalovirus (CMV) formulation is also based on whole virus CMV Merlin strain, however titer assignment is related to extraction method, specimen type, instrumentation, and amplification method (gene target and primer/probe). At Vircell a conversion factor has been determined testing both material in parallel, using for extraction Qiagen QIAamp DNA Blood Mini Kit and a RT-PCR assay targeting glycoprotein B on Roche LightCycler® 480 system.

Quantification validation was performed by real-time PCR.

#### Materials required but not supplied:

Molecular Biology grade water  
Additional extraction and detection kit.

#### STORAGE REQUIREMENTS:

Special transport conditions not required. Store the lyophilized vial at 2-8°C. After reconstitution, suspension should be used on the same day. Unused product should be discarded.

#### STABILITY AND HANDLING OF REAGENTS:

Handle reagents in aseptic conditions to avoid microbial contaminations.

Use only the amount of reagent required for the test.

The product is stable until the expiry date indicated in the label, if the instructions for use are followed.

VIRCELL, S.L. does not accept responsibility for the mishandling of the reagents included in the kit.

#### RECOMMENDATIONS AND PRECAUTIONS:

1. This product is for research use only and for professional qualified staff.

2. Sterile tips with aerosol barrier are essential to prevent contamination.

3. Specimens should be handled as in the case of infectious samples using safety laboratory procedures. Thoroughly clean and disinfect all work surfaces with a freshly prepared solution of 0.5% sodium hypochlorite in deionized or distilled water.

4. In order to perform the test it is essential to have separate working areas.

5. Dispose of unused reagents and waste in accordance with all applicable regulations.

6. The component VIRCELL TOTAL CONTROL could include genetic material or substances of animal and/or human origin. VIRCELL TOTAL CONTROL contains inactivated microorganism, nevertheless, it should be considered potentially infectious and handled with care. Inactivation was verified by the absence of growth under same culture conditions used for each microorganism. No present method can offer complete assurance that these or other infectious agents are absent. All materials should be handled and disposed as of potentially infectious. Observe the local regulations for waste disposal.

7. Although the human plasmas have been tested and found negative for Hepatitis B Surface Antigen (HBsAg), Hepatitis C antibodies and Human Immunodeficiency Virus antibodies, control and specimens should be handled as potentially infectious.

#### PREPARATION OF THE REAGENTS:

1. Add 200 µl of Molecular Biology grade water to each vial **1** and mix until completely reconstituted. The concentration will be approximately 35000 copies/ml once reconstituted.

2. Shake with vortex for 30 seconds to dissolve and homogenize completely.

3. Follow research kit instructions treating TOTAL CONTROL in an identical manner to a specimen using recommended amount for extraction and detection.

#### INTERNAL QUALITY CONTROL:










Each batch is subjected to internal quality control testing before releasing. Quality control analysis is performed using a sample preparation kit and real-time PCR for quantification. Final quality control results for each particular lot are available.

#### INTERPRETATION OF RESULTS AND VALIDATION PROTOCOL FOR USERS:

Refer to indications of additional extraction and detection kit.



**SYMBOLS USED IN LABELS:**

	For research use only
	Use by (expiration date)
	Store at x-y°C
	Batch code
	Catalogue number
	Consult instructions for use
	Reconstitute in x µl
	Shipment temperature
	Storage temperature

For any question please contact:

[customerservice@vircell.com](mailto:customerservice@vircell.com)

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