

Native Cytomegalovirus Cell Lysate Antigen

Cat. No. CYT-143 **Lot. No.** (See product label)

SPECIFICATION

Product Overview A clarified Cytomegalovirus cell lysate antigen mix from all stages of its replication life cycle which can be used as a positive control in a broad range of immunoassays including western blotting and ELISA.

Background Cytomegalovirus is a genus of viruses in the order Herpesvirales, in the family Herpesviridae, in the subfamily Betaherpesvirinae. Human and monkeys serve as natural hosts. There are currently eight species in this genus including the type species human herpesvirus 5. Diseases associated with HHV-5 include mononucleosis, and pneumonias. It has a diameter of approximately 120-180 nm and is an enveloped icosahedralvirus that contains a nucleocapsid and double-stranded linear DNA.

CMV is a latent infection that remains dormant inside the body and the immune system produces a large number of T cells to control the virus, making the in vitro T cell response to CMV extremely robust. CMV antigens can therefore be used to detect the T cell response to CMV and confirm the presence of the virus in different assays. Currently, there is no licensed vaccine to prevent CMV infection. Therefore, attempts to reduce the risk of cCMV infection by improving awareness, behaviour, screening, diagnosis and the treatment of symptomatic cases are the most immediate means of mitigating the health burden caused by cCMV (CDC).

Purity Clarified cell lysate

Sequence Strain AD-169

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Inactivation	Tested by passage on permissive cells for 2 weeks yielding no CPE.
Formulation	0.5% Triton X-100 in PBS
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short Term Storage: -80 centigrade Long Term Storage: -80 centigrade Store frozen at less than -20 centigrade, preferably -80 centigrade.
Concentration	1.0 mg/mL
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Native
ClassID 1	Infectious Disease
GENE INFORMATION	
Synonyms	CMV