

Inactivated Cytomegalovirus Antigen

Antigen (CMV)

Cat. No: DAG169

Lot.No: (See product label)

PRODUCT INFORMATION

Product Overview: Inactivated Cytomegalovirus Antigen is inactivated using gamma radiation, which primarily damages viral genetic material.

Description: Cytomegalovirus is a member of the Herpesviridae family. It is a common infection which mostly passes unnoticed. The infection may be dangerous to people who are immunocompromised such as those who are HIV positive or organ transplant recipients. The infection may also be dangerous to pre- and post-natal infants. Antiviral drugs are useful in the treatment of CMV infection.

Product Form: Inactivated Cytomegalovirus - liquid

Target Species: Viral

Format: Inactivated Pathogen

Activity: This product has been rendered inactive by standard procedures. However this material should still be handled as infectious and should be disposed of appropriately.

Reconstitution: Inactivated Cytomegalovirus Antigen should be sonicated immediately before use to ensure the preparation is uniform. The product may be used in a variety of immunoassay formats or may be further purified to meet the requirements of a particular assay format.

Preparation: MRC-5 monolayers are infected in a manner which will ensure that the full host of viral proteins are present upon harvest. Optimally infected tissue is collected in glycine buffered saline. The cells are disrupted to release cellular CMV antigen. Cellular debris is removed by centrifugation. The antigen preparation is inactivated using gamma radiation, which primarily damages viral genetic material.

Applications: ELISA

BACKGROUND

Introduction: Cytomegalovirus is a viral genus of the viral group known as Herpesviridae or herpesviruses. The species that infects humans is commonly known as human CMV (HCMV) or human herpesvirus-5 (HHV-5), and is the most studied of all cytomegaloviruses. All herpesviruses share a characteristic ability to remain latent within the body over long periods. Although they may be found throughout the body, CMV infections are frequently associated with the salivary glands in humans and other mammals.

Keywords: Cytomegalovirus; CMV; HH5; UL55; UL122; UL123; UL 84; Herpesviridae; Betaherpesvirinae

PACKAGING

Concentration: 3.3mg/ml

Buffer Solution: Glycine buffered saline

Preservative Stabilisers: None

Shelf Life: 18 months from date of despatch.

Storage: Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.

REFERENCES

1. Ryan KJ, Ray CG (editors) (2004). "Sherris Medical Microbiology" (4th ed.). McGraw Hill. pp.556; 566-9.
2. Staras SA, Dollard SC, Radford KW, Flanders WD, Pass RF, Cannon MJ (November 2006). "Seroprevalence of cytomegalovirus infection in the United States, 1988-1994". Clin. Infect. Dis. 43 (9): 1143-51.