

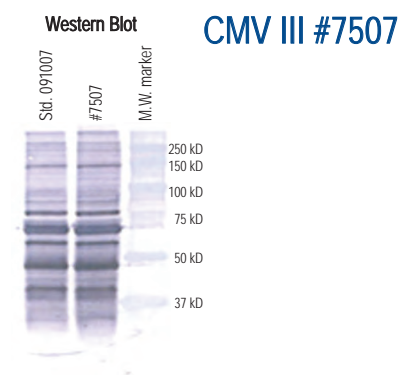
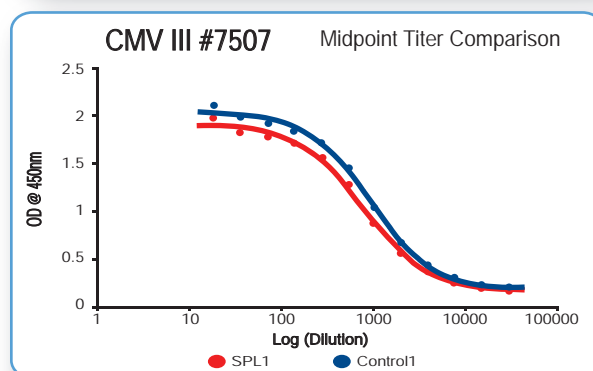
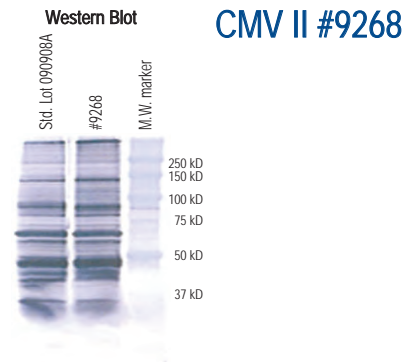
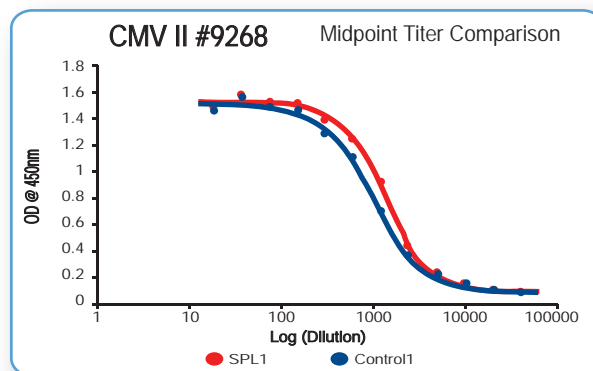
# CYTOMEGALOVIRUS ANTIGEN

The transmission of CMV via transfused blood may account for the majority of the CMV infections in organ transplant recipients, neonates and heart surgery patients. Medical conditions resulting from Cytomegalovirus infections include: interstitial pneumonia, mononucleosis (heterophile negative), congenital defects, abortion, mental retardation, blindness and deafness.

## CMV GRADE II ANTIGEN & CMV GRADE III ANTIGEN:

The #9268 CMV II (1.0mg/mL) and #7507 CMV III (1.0mg/mL) process is designed to produce a purified, high concentration antigen targeting surface antigens with good IgG and IgM specific immunogenicity respectively. The purified CMV antigens are enriched for pp65, gB, p52 and other active CMV proteins which exhibit good sensitivity and low background in diagnostic assays.

- Purified to ~60% Viral Proteins
- High Sensitivity for both IgG and IgM Assays
- Protein Concentration 1mg/mL
- Supplied in 0.1M Glycine pH 9.5 ± 0.2



## KEY CMV ANTIGENS:

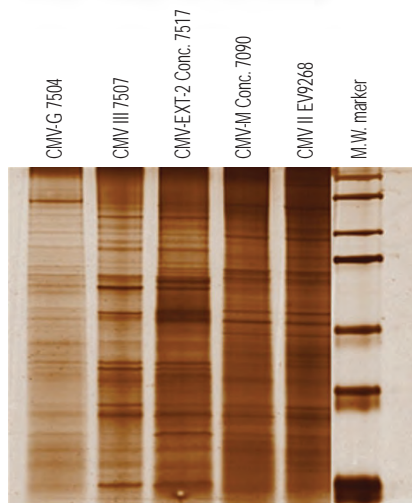
At least 30 proteins form the complete infectious particle of CMV. Key immuno-diagnostic antigens of CMV infection include: pp65 and p52 (IgM associated), glycoprotein gB and pp150 (IgM and IgG associated) along with others.

Meridian Life Science, Inc. supplies six Cytomegalovirus (CMV) antigens of various key protein mixtures, concentrations and purities. The antigen preparations are partially purified to reduce host cell components prior to inactivation by the extraction process or ultraviolet light. The result is high sensitivity and low background antigens useful in a variety of solid phase immunoassays.

# CYTOME GALOVIRUS ANTIGEN

Cytomegalovirus (CMV) is considered one of the most common viral infections in man. The virus rarely causes disease, but may persist as a latent or chronic infection of the salivary glands, renal tubules, cervix, and leukocytes.

## KEY CMV ANTIGENS:



### CMV-G, CMV-M, CMV-EXT 2, CMV-II, and CMV-III

- Propagated in human fibroblast cells. Infected with the same viral strain, AD169.
- Extracted by various methods and may be further purified by column purification or ultracentrifugation.
- May contain some CMV antigens in common and will perform in both IgG and IgM assays.
- Extraction process selects for specific proteins associated with an IgG or IgM response.
- All CMV antigens are inactivated by the extraction process or ultraviolet light and tested for infectivity prior to final release

## OTHER CMV ANTIGENS:

### CMV-M #7511 AND #7090

The #7511 (0.7 - 2.0mg/mL) and #7090 (0.3 - 1.0mg/mL) CMV-M antigen process extracts antigens primarily from the nucleus and endoplasmic reticulum of the infected cells. This enhances the amount of antigens reacting with the early IgM antibody. In contrast, the entire cell is extracted for the #7504 CMV (0.2 - 0.4mg/mL) antigen.

- Partially Purified
- Supplied in 0.1M Glycine pH 9.5 ± 0.2
- High Sensitivity for both IgG and IgM Assays

### CMV #7504

This is a relatively crude lysate that provides all CMV-related antigens (0.2 - 0.4mg/mL) and is targeted to detect IgG responses.

- <10% Viral Proteins
- Lysate
- 0.1M Glycine pH 9.3-9.7

### CMV-EXT 2 #7517

The #7517 (0.3 - 0.4mg/mL) CMV-EXT 2 process is designed to select the CMV glycoprotein antigens by using a high salt extraction of the infected fibroblast cells. This process enriches for the antigens found on the surface of the cell that react with IgG antibodies.

- <10% Viral Proteins
- Enriched for Surface Glycoproteins
- 0.1M Glycine pH 9.3-9.7

VA-CMV 06/22/10

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