

CMV Dextramer® (ASR)

Forms:

HLA-A*0101 / VTEHDTLLY / PE	Cat. No. WA02131A PE 50
HLA-A*0201 / NLVPMVATV / PE	Cat. No. WB02132A PE 50
HLA-A*0301 / KLGGALQAK / PE	Cat. No. WC02197A PE 50
HLA-A*2402 / QYDPVAALF / PE	Cat. No. WF02133A PE 50
HLA-B*0702 / RIPHERNGFTVL / PE	Cat. No. WH02135A PE 50
HLA-B*0702 / TPRVTGGGAM / PE	Cat. No. WH02136A PE 50
HLA-B*0801 / ELRRKMMYM / PE	Cat. No. WI02137A PE 50
HLA-B*3501 / IPSINVHHY / PE	Cat. No. WK02138A PE 50

Analyte specific reagent. Analytical and performance characteristics are not established.

Specificity: CMV Dextramer reagents react with T cell receptors on human CD8⁺ T cells restricted by the HLA allele of the Dextramer and specific for the CMV peptide displayed.

Reagent provided: CMV Dextramers comprise dextran polymer backbone carrying multiple fluorochrome molecules (PE) and multiple MHC-peptide complexes displaying a peptide epitope from a CMV antigen.

CMV Dextramer reagents are provided in liquid form in volumes of 0,5 ml in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaN, pH 7.2.

10 µL conjugate is enough to stain 1x10⁶ HPBMC.

Antigen description and distribution:

Cytomegalovirus (CMV) is a herpes virus that infects 50-85% of the adult population and remains latent in healthy individuals through control by the presence of CMV-specific T cells.

Reactivation of CMV is a frequently occurring complication of immunosuppression in transplant patients and other immune suppressed individuals and can significantly contribute to morbidity and mortality if the virus is not controlled.

CMV-specific CD8⁺ T cells play a critical role in suppressing CMV reactivation. In healthy individuals equilibrium is achieved where CMV-specific T cells control the persisting virus. When T cell function is impaired and equilibrium is not established, viral reactivation and clinical disease may develop.

Detection of CMV-specific CD8⁺ T cells requires recognition of the T-cell receptor (TCR) by a unique combination of a MHC class I molecule coupled with a CMV-specific peptide. CMV-specific TCR's on the surface of CD8⁺ T cells are recognized by complementary CMV Dextramers.

Storage and precautions: Always keep CMV Dextramers stored at 2-8°C in the dark. The brown plastic vial does not protect the reagent sufficiently against light.

CMV Dextramers contain sodium azide (NaN₃), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.

All materials should be disposed of according to your institution's guidelines for hospital waste disposal.

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