Centre for AIDS Reagents

Data Sheet

NAME: Rev-CEM

REPOSITORY REFERENCE: **ARP5038**

CELL TYPE: CEM-SS cells were infected with a Lentivirus pNL-GFP-RRE(SA). Clones were isolated and selected for HIV-dependent GFP expression.

SPECIAL CHARACTERISTICS: Rev-CEM expresses CD4, CXCR4, and low levels of CCR5. Infection by HIV results in GFP expression in 3-5 days. The cell line has been used to perform TCID50 assays on both X4 and R5 viruses. For routine measurements of infectivity with the Rev-CEM cells, we perform this assay in 96 well plates: 2 x 105 cells are infected with serially diluted virus in flat-bottom 96 well plates (final volume 200 ul RPMI + 10% FCS) and incubated for 3 to 5 days with fresh medium added as needed. The presence of GFP-positive cells is identified by fluorescent microscopy. HIV replication can also be followed by flow cytometry.

CULTURE MEDIUM: RPMI, 10% FCS

SOURCE: (Courtesy of the NIH)

REFERENCE: Wu, Y., Beddall, M. H., and Marsh, J. W. (2007). Rev-dependent indicator T cell line. Current HIV Research 5, 395-403

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Scientists at for-profit institutions or who intend commercial use Rev-CEM cells (NIH Cat# 11467) must contact Dr. Sally Hu, NIH Office of Technology Transfer, Email: hus@mail.nih.gov, Tel: 301-435-5606, before the reagent can be released. Please cite reference number E-276-2003.