b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

DATA SHEET

For research use only. Not for use in humans.

Reagent: CEM CD4+ Cells

Catalog Number: ARP-117

Lot Number: 200238

Provided: Each vial of ARP-117 contains approximately 5.95 × 10^6 cells in 0.6 mL of freeze medium. Post-thaw viability was 40%, but increases to 90% after 10 days.

Cell Type: ARP-117 is a human T lymphoblastoid cell line.

Propagation Medium: The recommended propagation medium is 90% DMEM supplemented with 10% fetal bovine serum.

Freeze Medium: The recommended freeze-medium is Gibco Recovery Cell Culture Freezing Medium.

Growth Characteristics: ARP-117 cells should be split every 2 to 3 days. Cells grow in suspension with a lymphoblast-like morphology. An inoculum of 10^5 cells/mL will increase four- to five-fold in 4 to 5 days when incubated at 37°C, provided pH is maintained at 7.0 and fresh medium is added every other day. Maintenance of the cell population at 10 cells^6/mL is optimal for growth.

Morphology: Lymphoblast-like

Sterility: Tests for bacteria, fungi and mycoplasma were negative.

Special Characteristics: ARP-117 is a naturally isolated subclone of the CEM line with high levels of surface CD4 expression. It was originally called CEM-T4.

Recommended Storage: Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.

Contributor: Dr. J.P. Jacobs

References: Foley, G. E., et al. "Continuous Culture of Human Lymphoblasts from Peripheral Blood of a Child with Acute Leukemia." Cancer 18 (1965):522-529. PubMed: 14278051.

Citation: Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: CEM CD4+ Cells, ARP-117."

Biosafety Level: 1 Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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