DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human T-Lymphotropic Virus Type 1 (HTLV-1)-Infected MT-2 Cells
Catalog Number:	ARP-237
Lot Number:	180193
Release Category:	A
Provided:	Each vial of ARP-237 contains approximately 6.8 × 10^6 cells in 1 mL of freeze medium. Post-thaw viability was 60.8%.
Propagation Medium:	The recommended propagation medium is RPMI 1640 medium with penicillin and streptomycin (90%) supplemented with fetal bovine serum (FBS; 10%).
Freeze Medium:	The recommended freeze medium is RPMI 1640 medium (70%), FBS (20%) and dimethylsulfoxide (DMSO; 10%).
Growth Characteristics:	The culture should be split in a ratio of 1:10 every 3 days until cells reach a density of 2 × 10^6 cells per mL. Cells grow in clumpy suspension.
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Description:	MT-2 cells were produced by co-culturing normal human cord leukocytes with leukemic T-cells from a patient with adult T-cell leukemia.
Special Characteristics:	MT-2 cells were transformed with and are continuous producers of HTLV-I virions and should be handled accordingly. They have been cloned for maximal cytopathic effects with Lymphadenopathy-Associated Virus (LAV) and cured of mycoplasma by Dr. John Riggs, Virology Laboratory, California Department of Public Health, Berkeley, California.
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Dr. Douglas Richman
References:	Haertle, T., et al. "Metabolism and Anti-Human Immunodeficiency Virus-1 Activity of 2-Halo-2', 3'-Dideoxyadenosine Derivatives." J. Biol. Chem. 263 (1988): 5870-5875. PubMed: 3258602. Harada, S., Y. Koyanagi and N. Yamamoto. "Infection of HTLV-III/LAV in HTLV-I-Carrying Cells MT-2 and MT-4 and Application in a Plaque Assay." Science 229 (1985): 563-566. PubMed: 2992081.
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Human T-Lymphotropic Virus Type 1 (HTLV-1)-Infected MT-2 Cells, ARP-237, contributed by Dr. Douglas Richman." Also include the references cited in any publications.
Biosafety Level: 2	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). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.
Disclaimers:	You are authorized to use this product for research use only. It is not intended for human use.

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