



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	AA-2 Cells
Catalog Number:	135
Lot Number:	99014
Release Category:	D
Provided:	7 x 10 ⁶ cells/vial.
Cell Type:	AK ⁻ dCK ⁻ subclone of AA cells derived from the WIL-2 human splenic EBV ⁺ B lymphoblastoid line. WIL-2 was originally isolated from the spleen of a Caucasian male with hereditary spherocytic anemia. AA-2 cells were isolated by stepwise selection in 6-methylmercaptopyrimidine ribonuclease and arabinosylcytosine to obtain a clone with <1-3% wild type AK and dCK activity.
Propagation Medium:	RPMI 1640 supplemented with nonessential amino acids and 1 mM pyruvate, 90%; fetal bovine serum or horse serum, 10%.
Freeze Medium:	RPMI 1640, 67.5%; fetal calf serum, 10%; horse serum, 10%; DMSO, 12.5%.
Growth Characteristics:	Cells grow in suspension in clumps which are difficult to disperse. Stock cultures are passaged once a week with cells diluted to approximately 1 x 10 ⁵ /ml. Active cultures should be maintained between 2 x 10 ⁵ cells/ml and 8 x 10 ⁵ cells/ml. At this concentration range the cells should double every 24 hours.
Morphology:	Lymphoblast-like.
Sterility:	Negative for bacteria, fungi, and mycoplasma.
Description:	These cells are remarkably permissive for HIV-1 infection, extremely sensitive to virus cytopathic effects, and is useful for producing high titer virus stock.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Special Characteristics: Expresses high levels of CD4 and binds more gp120 than other WIL-2 derivatives.

Recommended Storage: Liquid nitrogen.

Contributor: Dr. Michael Hershfield.

References: Chaffee S, Leeds JM, Matthews TJ, Weinhold KJ, Skinner M, Bolognesi DP, Hershfield MS. Phenotypic variation in the response to the human immunodeficiency virus among derivatives of the CEM T and WIL-2 B cell lines. *J Exp Med* **168**:605-621, 1988.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: AA-2 from Dr. Michael Hershfield (cat# 135)." Also include the reference cited above in any publication.

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