Centre for AIDS Reagents.

Data Sheet

NAME :	Human CD4 + T cell line A3.01
REPOSITORY REFERENCE :	ARP098
SPECIES/TYPE :	Human CD4 + T cell line
CELL TYPE:	HAT – sensitive derivative of CEM, a human T-cell line derived from the peripheral blood buffy coat of a four - year old Caucasian female with acute lymphoblastic leaukemia. Morphology is mature lymphocytic.
CULTURE MEDIUM:	RPMI 1640,90%; foetal calf serum 10%
FREEZE MEDIUM:	Culture medium 90%, DMSO 10%
STERILITY:	Negative for bacteria, mycoplasma and fungi
STORAGE:	Liquid Nitrogen
GROWTH CHARACTERISTICS:	When thawing, dilute the cells with 37°C medium dropwise, wash out the DMSO, and seed the initial culture at 1 x 10^6 cells/ml. Passage the cells every three days to give a concentration of 1 x 10^6 cells/ml. Cells grow in single cell suspension. Doubling time is 24 hours. A3.01 has also been grown successfully in OPTI-MEM medium containing 2.5% foetal bovine serum, 2.0mM L-glutamine, 100 U/ml penicillin and 100µg/ml streptomycin.

National Institute for Biological Standards and Control – Assuring the quality of biological medicines
Blanche Lane South Mimms Potters Bar Hertfordshire EN6 3QG United Kingdom
Tel +44 (0)1707 641000 Fax +44 (0)1707 641050 www.nibsc.ac.uk
A World Health Organization Laboratory for Biological Standards

SPECIAL CHARACTERISTICS :

A3.01 was selected by growth in hypoxanthine and aminopterin-containing medium. Suitable for human T – lymphocyte fusions. Cells are Leu-3^+, Leu-8^+, Leu-1^+, tac, transferrin receptor$^+$, sensitive to infection with LAV, and susecptible to cytopathic effects when infected.

REFERENCE:

Buttke TM & Folks TM (1992), J Biol Chem 265: 8819-8826.
Folks TM et al (1995), Proc Natl Acad Sci USA 82:4539-4543

SOURCE :

Dr T Folks (courtesy of NIH AIDS Research and reference Reagent Programme.)

ACKNOWLEDGEMENTS :

Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html in the "Acknowledgements" section.
Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)