

# DATA SHEET

**For research use only. Not for use in humans.**

<b>Reagent:</b>	THP-1 Cells
<b>Catalog Number:</b>	ARP-9942
<b>Lot Number:</b>	200188
<b>Provided:</b>	Each vial of ARP-9942 contains approximately $3.5 \times 10^6$ cells in 0.6 mL of freezing medium. Post-thaw viability was 94%.
<b>Cell Type:</b>	ARP-9942 is a human monocytic leukemia cell line.
<b>Propagation Medium:</b>	The recommended propagation medium is RPMI 1640 supplemented with 2 mM GlutaMAX™, and 10% fetal bovine serum.
<b>Freeze Medium:</b>	The recommended freeze medium is Gibco Recovery Cell Culture Freezing Medium.
<b>Growth Characteristics:</b>	ARP-9942 is a suspension cell line with a doubling time of approximately 24 hours.
<b>Sterility:</b>	Tests for bacteria, fungi, and mycoplasma were negative.
<b>Description:</b>	ARP-9942 is a human monocytic leukemia cell line, THP-1, obtained from (ATCC® TIB-202™). ARP-9942 was used as the parental line in deriving the THP-1 DC-SIGN+ cell line (available as BEI Resources Catalog No. ARP-9943).
<b>Special Characteristics:</b>	ARP-9942 was derived from the peripheral blood of a 1-year-old boy with acute monocytic leukemia. The monocytic cell line expresses Fc and C3b receptors; the cells are phagocytic but lack surface or cytoplasmic immunoglobulins. The monocytic differentiation of the cell line can be induced with the phorbol ester 12-O-tetradecanoylphorbol-13-acetate (TPA).
<b>Recommended Storage:</b>	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
<b>Contributor:</b>	Dr. Li Wu, Dr. Vineet N. KewalRamani and HIV Drug Resistance Program, NCI
<b>References:</b>	<p>Tsuchiya, S., et al. "Establishment and Characterization of a Human Acute Monocytic Leukemia Cell Line (THP-1)." <i>Int. J. Cancer</i> 26 (1980): 171-176. PubMed: <a href="#">6970727</a>.</p> <p>Wu, L., et al. "Raji B Cells, Misidentified as THP-1 Cells, Stimulate DC-SIGN-Mediated HIV Transmission." <i>Virology</i> 318 (2004): 17-23. PubMed: <a href="#">14972530</a>.</p>
<b>Citation:</b>	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: THP-1 Cells, ARP-9942."
<b>Biosafety Level: 1</b>	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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