



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	MAGI-CCR5 Cells
<b>Catalog Number:</b>	3522
<b>Lot Number:</b>	110094
<b>Release Category:</b>	E
<b>Provided:</b>	2.7 x 10 <sup>6</sup> cells/vial (viability 95%).
<b>Cell Type:</b>	HeLa
<b>Propagation Medium:</b>	DMEM supplemented with 10% fetal bovine serum, 100 U/ml penicillin, 100 µg/ml streptomycin, 0.25 µg/ml fungizone, 300 µg/ml L-glutamine, 0.2 mg/ml G418; 0.1 mg/ml hygromycin B; and 1 µg/ml puromycin.
<b>Freeze Medium:</b>	DMEM complete supplemented with 25% fetal bovine serum, 10% DMSO.
<b>Growth Characteristics:</b>	Besides letting the cells grow for one week without drug selection in DMEM complete after thawing, there are no special requirements for thawing the cells. At confluency, split 1/20 vol. usually once a week. After approximately 8 passages, these adherent cells change morphology and begin to clump into patches. This may be a result of the puromycin and/or high levels of CCR5 expression. This does not seem to have an effect on HIV infectability. Cells grown up into the 4th month, 18–24 passages, are as infectable as freshly thawed cells.  <a href="#">MAGI-CCR5 ASSAY</a>
<b>Sterility:</b>	Negative for bacteria, fungi, and mycoplasma.
<b>Description:</b>	This is an indicator cell line susceptible to HIV-1 and SIV infection.

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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:** The parental MAGI cell line is a HeLa cell clone expressing human CD4 and HIV-LTR- $\beta$  gal, and was developed by Michael Emerman's lab (Kimpton and Emerman, *J Virol* **66**:2232, 1992). MAGI-CCR-5 cells are a clone of MAGI cells that express the human chemokine receptor, CCR5, provided by Dan Littman (Deng et al., *Nature* **381**:661,1996).

**Recommended Storage:** Liquid nitrogen.

**Contributor:** Dr. Julie Overbaugh.

**References:** Chackerian B, Long EM, Luciw PA, Overbaugh J. HIV-1 co-receptors participates in post-entry stages of the virus replication cycle and function in SIV infection. *J Virol* **71**:3932-3939, 1997.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID: MAGI-CCR5 from Dr. Julie Overbaugh." Also include the reference cited above in any publications.

**Limited to one aliquot per laboratory.**

**Recipient must not use or incorporate the reagent for commercial purposes.**

**Last Updated** July 03, 2018

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