Reagent: TZM-bl Cells

Catalog Number: 8129

Lot Number: 098358

Release Category: E

Provided: 1 ml/vial (6.5 x 10^6 cells/vial). Viability is 99%.

Cell Type: TZM-bl, previously designated JC53-bl (clone 13) is a HeLa cell line. The parental cell line (JC.53) stably expresses large amounts of CD4 and CCR5. The TZM-bl cell line was generated from JC.53 cells by introducing separate integrated copies of the luciferase and β-galactosidase genes under control of the HIV-1 promoter. The TZM-bl cell line is highly sensitive to infection with diverse isolates of HIV-1.

PLEASE NOTE: This TZM-bl cell line is contaminated with ecotropic murine leukemia virus, MLV. For additional information please consult the references below.

Propagation Medium: DMEM (90%), 10% FBS, 100 units of Penicillin and 0.1 mg/ml of Streptomycin.

Freeze Medium: 50% FBS, 40% DMEM, 10% DMSO.

Growth Characteristics: Adherent cell line. No special requirements for thawing and reestablishing the culture. Cells grow in single cell layer. Antibiotic selection is not required to maintain stable expression of the receptors and reporter genes.

Sterility: Negative for bacteria, mycoplasma, and fungi.

Special Characteristics: The TZM-bl indicator cell line enables simple and quantitative analysis of HIV using either β-gal or luciferase as a reporter. It is maximally sensitive to HIV infection by including DEAE-dextran in the infection medium. The β-gal and luciferase genes are also induced by HIV-2 infection.

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.
Recommended Storage: Liquid nitrogen.

Contributor: Dr. John C. Kappes, Dr. Xiaoyun Wu and Tranzyme Inc.

References:


NOTE:
Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: TZM-bl from Dr. John C. Kappes, Dr. Xiaoyun Wu and Tranzyme Inc." Also include the references cited above in any publications.


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

Last Updated February 27, 2015