ThawReady™ THP-1 NF-kB-Luc2

TIB-202-NFkB-LUC2-AR™

Description

ThawReady™

ATCC ThawReady™ THP-1 NF-kB-Luc2 monocytes can be used at thaw, eliminating lengthy cell expansion. These assay ready cells allow you to acquire your data in hours rather than weeks, eliminating the need for cell expansion or banking. Additionally, these cells express luciferase under the control of the NF-kB reporter, allowing sensitive and quantitative quantification of NF-kB activation.

Organism: *Homo sapiens*, human
Tissue: Peripheral blood
Age: 1 year
Gender: Male
Morphology: Lymphoblast-like
Growth properties: Suspension
Disease: Acute monocytic leukemia
Cells per vial: 6.0 x 10^6

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2

Handling Procedures

Complete medium: The base medium for this cell line is ATCC-formulated RPMI-1640 Medium (ATCC 30-2001). To make the complete growth medium, add the following components to the base medium:

- Fetal bovine serum (ATCC 30-2020) to a final concentration of 10%
- Puromycin to a final concentration of 1 µg/mL
- 2-Mercaptoethanol to a final concentration of 0.05 mM

Handling Procedure:

To ensure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70° C. Storage at -70°C will result in loss of viability.

- Follow cell thawing protocol for ThawReady™ Cells. THP-1 reporter cells have a wide array of assay applications. Cells should be appropriately titered to determine appropriate concentration for any particular assay.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: ThawReady™ THP-1 NF-kB-Luc2 (ATCC TIB-202-NFkB-LUC2-AR)

References

References and other information relating to this material are available at www.atcc.org.

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The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media

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