



QUIDEL

TurboTreat®

A Mink Lung Cell Pretreatment Medium

Pretreatment medium for Mv1Lu (mink lung)

FOR *IN VITRO* DIAGNOSTIC USE



INTENDED USE

TurboTreat is intended to be used as a pretreatment medium for Mv1Lu (mink lung) cell culture prior to inoculation with specimens when looking for CMV (cytomegalovirus) or with specimens.

DESCRIPTION

TurboTreat is formulated to supply the cells with the required nutrients during the pre-incubation period. Contains: EMEM with EBSS, without phenol red, 10% FBS, 25 mM HEPES, and Gentamicin at 50 ug/mL. Sterile.

WARNINGS AND PRECAUTIONS

- For *in vitro* diagnostic use.
- TurboTreat culture medium is for *in vitro* diagnostic use.
- Recommended **for use only with** Mv1Lu CMV cell cultures.
- Personnel working with cell culture must be properly trained in virus culture and safe handling techniques.²
- Manipulations which present potential personnel hazards should be conducted in a Class II biosafety cabinet.
- Cultures and specimens should be autoclaved or disinfected with a solution of sodium hypochlorite (1:10 final dilution of household bleach) prior to disposal.
- Testing should be performed in an area with adequate ventilation.
- Dispose of containers and unused contents in accordance with Federal, State and Local regulatory requirements.
- Wear suitable protective clothing, gloves, and eye/face protection when handling the contents of this kit.
- Wash hands thoroughly after handling.
- For additional information on hazard symbols, safety, handling and disposal of the components within this kit, please refer to the Safety Data Sheet (SDS) located at quidel.com.

STORAGE

TurboTreat should be stored at 2°C to 8°C.

INSTABILITY AND DETERIORATION OF MATERIALS

Upon receipt, TurboTreat should be visually examined for color and for signs of turbidity. TurboTreat should be clear-to-light straw/yellow in color, and there should be no signs of turbidity. Do not use TurboTreat if it exhibits any degree of turbidity as this is an indicator of possible contamination.

PROCEDURE

For Shell-vial Culture Format

1. Determine the number of Mv1Lu shell-vials needed. It is recommended that specimens be run in duplicate shell-vials.
2. Examine the monolayers with a microscope to insure that they are greater than 90% confluent. If not, place them in a 35°C to 37°C incubator for several hours or until the desired degree of confluence is achieved.
3. Aseptically aspirate the cell culture medium from the Mv1Lu shell-vials.
4. Transfer 0.3 mL of TurboTreat into each Mv1Lu shell-vial. Replace caps.
5. Incubate at 35°C to 37°C for 16 to 24 hours.
6. When ready to use, aseptically aspirate the TurboTreat from each shell-vial.
7. Inoculation: Select one of the following two methods based on your laboratory's experience.
 - ▶ Inoculate 0.2 mL of patient specimen into each shell-vial to be tested or,
 - ▶ Add 1 mL of cell culture medium (EMEM; various media available from Quidel) to each shell-vial. Inoculate 0.2 mL of patient specimen.
8. Replace caps and centrifuge the inoculated shell-vials at 700xg for 45 to 60 minutes at room temperature (18°C to 30°C).
9. After centrifugation, based on the procedure used above, either:
 - ▶ Add 1 mL of cell culture medium or,
 - ▶ If specimen was inoculated through the cell culture medium,
10. Stopper each shell-vial and place in 35°C to 37°C incubator.
11. Stain at 24 and/or 48 hours post-inoculation, based on your laboratory's experience.

NOTE: Mv1Lu cells should not be treated with TurboTreat for more than 24 hours since prolonged treatment may induce toxicity in the cells. If Mv1Lu cells are treated with TurboTreat for 16 to 24 hours but not used, the cells may be used at a later date by carefully aspirating the TurboTreat and replacing it with 1 mL of cell culture medium. After a minimum of 24 hours are allowed for recovery, the cells should be examined to confirm confluence and may be re-treated with 0.3 mL of TurboTreat and incubated at 35°C to 37°C for 16 to 24 hours prior to performing Step 6, above. **Cells are to be treated no more than two (2) times.** Additional treatment will cause damage to the cells and render them unsuitable for testing. Cells not used after the second treatment with TurboTreat should be discarded.

QUALITY ASSURANCE

TurboTreat is analyzed prior to shipping. A Lot Specification Sheet is supplied with each order to inform the end user of its quality control status. Additionally, visual inspection for a lack of turbidity and the typical clear-to-light straw/yellow color should be performed and documented upon receipt.

Negative cell controls should be run with each batch of specimens tested for virus. Negative controls consist of monolayers treated with *TurboTreat* but not inoculated with specimen or virus; otherwise, negative cell controls are handled the same as inoculated monolayers.

Positive virus controls may be run using previously identified viral agents that will produce the result desired from a positive patient sample. While not generally required by regulatory organizations, these may be useful for troubleshooting purposes or for the production of additional external staining controls.

Lot Specifications

Information beyond that provided by the Product Insert or Lot Specification Sheet is available upon request (e.g., Material Safety Data Sheet).

LIMITATIONS

TurboTreat is intended for use with the FreshCells™ Mv1Lu cultures. Performance of other cell lines has not been evaluated using TurboTreat.

ASSISTANCE

To place an order or for technical support, please contact a Quidel Representative at 800.874.1517 (in the U.S.) or 858.552.1100 (outside the U.S.), Monday through Friday, from 8:00 a.m. to 5:00 p.m., Eastern Time. Orders may also be placed by fax at (740) 592-9820. For e-mail support contact customerservice@quidel.com or technicalsupport@quidel.com.

For services outside the U.S.A., please contact your local distributor. Additional information about Quidel, our products, and our distributors can be found on our website quidel.com.

REFERENCES

1. Yang, Wei, Hite, Scott, Huang, Yung T. Enhancement of cytomegalovirus detection in mink lung cells using CMV TurboTreat™. 2005 J Clin Virol 34:125-128.
2. Biosafety in Microbiological and Biomedical Laboratories (BMBL), 5th edition, 2007, CDC-NIH manual. [<http://www.cdc.gov/od/ohs/biosfty/bmbI5/bmbI5toc.htm>]

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REF

Catalogue number



CE mark of conformity

EC REP

Authorized Representative
in the European Community

LOT

Batch code



Use by



Manufacturer



Temperature limitation



Intended use



Consult e-labeling
instructions for use



Do not reuse

IVD

For *In Vitro* diagnostic use

CONT

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