

MICROGEN BIOPRODUCTS LTD

SUPER E-Mix™

Mixed Cells For Enterovirus Culture and Detection

SUPER E-Mix™ – advanced mixed cell technologies producing a superior system for the detection and identification of Enteroviruses.

SUPER E-Mix™ contains BGMK (Buffalo Green Monkey Kidney) cells that have been genetically transformed with the addition of human Decay Acceleration Factor (h-DAF).

Studies have validated that virus infectivity is enhanced with these h-DAF transformed cells over non-transformed BGMK cells.

The combination of h-DAF-BMK and A549 cells in SUPER E-Mix provides the capability to detect all known cultivable Enteroviruses in a single tube.

SUPER E-Mix™ has the following features:

- Broad Enterovirus coverage in a single tube.
- Available in Fresh FrozenCell™ format for preparation of shell vials or tubes.
- Superior sensitivity to conventional tubes.
- CPE produced days sooner than conventional tubes.
- Use with immunofluorescence staining or CPE protocols.
- Genetically engineered BGMK cells improve susceptibility to viral infection.

Protecting Food and Health

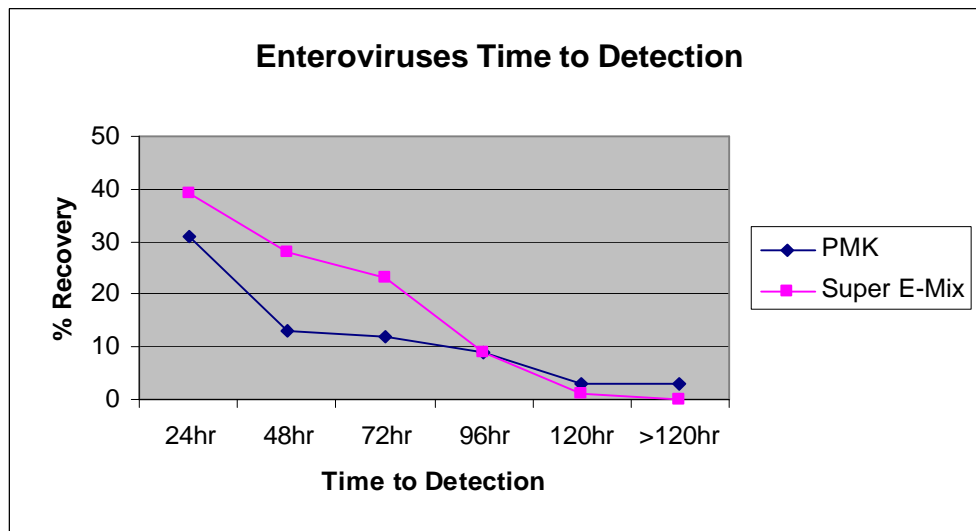
MICROGEN BIOPRODUCTS LTD

1 Admiralty Way
Camberley
Surrey
GU15 3DT
United Kingdom

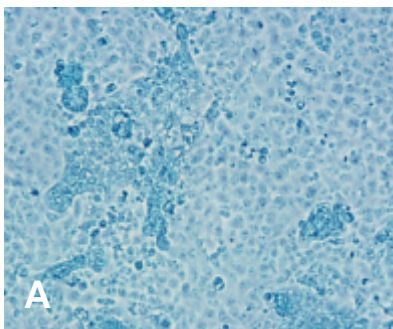
Phone: +44 (0)1276 600081
Fax: +44 (0)1276 600151
E-mail: sales@microgenbioproducts.com
www.microgenbioproducts.com



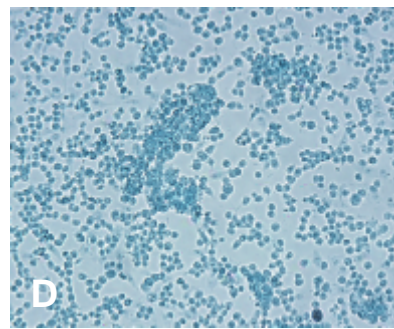
Standard Tissue Culture usually involves the inoculation of multiple cell lines to ensure that all potential target viruses have an opportunity to grow. No one single cell line is able to grow all these viruses, therefore it is standard procedure to inoculate multiple lines which are then incubated for a period of time and examined regularly for Cytopathic Effect (CPE). Mixed cell culture is a technique in which multiple cell lines are grown within the same tube. The use of these mixed cell culture both facilitates the simultaneous growth of a wider range of virus types in a single tube and increases the overall sensitivity of detection.



Data extracted from poster by Halstead and Smith CVS 2004



Uninfected monolayer



Extensive CPE

Cell Culture Planting Medium :

To seed cell cultures from cryovials into shell vials or glass tubes.

The thawed bulk cells are diluted to the appropriate volume in planting medium. A cell monolayer will be produced in 2-3 days. Planting medium is replaced by Super E-mix™ Refeed Medium prior to inoculation.

10-200100 EU1 (100ml) stored as liquid at 2-8°C

10-200100 EU2 medium supplement stored frozen

10-380100 Super E-Mix Refeed Medium

Super E-mix™ is a trademark of Diagnostic Hybrids Ltd