

National Institute for Cellular Biotechnology

BriClone

Hybridoma Cloning Additive

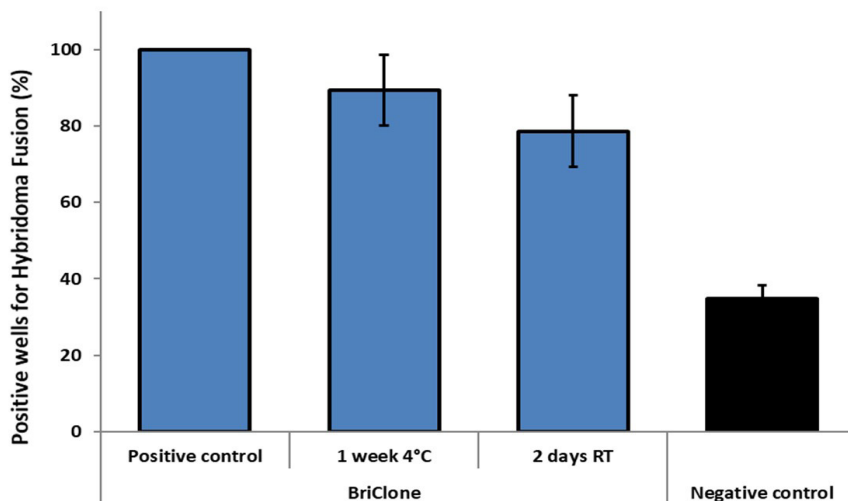
Stability Analysis



BriClone is an additive for the cloning medium used in the post-fusion stages of hybridoma production and for improving the efficiency of hybridoma cell cloning.

To demonstrate the stability of BriClone, various simulated conditions were assessed mimicking extended ambient temperatures that may present when transporting the product on ice packs, instead of in dry ice containers.

Post-fusion hybridoma production was assessed using normal BriClone thawing conditions (overnight at 4°C) as a positive control. The simulated conditions analysed included one week at 4°C and two days at room temperature.



Fusion efficiency expressed as a percentage of wells in 48-well plates with positive hybridoma clones following fusion, relative to BriClone positive control (thawed overnight). Error bars indicate standard deviation (n=3); RT=Room Temp.

No significant differences were observed between the simulated transport conditions and the positive control ($P < 0.05$) in each case.

Stability of BriClone is therefore not significantly affected following exposure to extended ambient temperatures as may occasionally be observed in transport of the product on ice packs.

Negative control was performed without any supplement.



Origins of Components

Dulbeccos Modified Eagle medium (DMEM): Non Animal Source

Foetal Bovine Serum: origin United States of America, certified free of viruses

Volume

10ml Sample Bottle

100ml Bottle

Storage Condition

Store at -20°C. Avoid repeated freeze/thaw cycles.

Stable for short periods at +4°C

Shelf Life

See expiry date on the label

Sterility

Each batch of BriClone undergoes a filtration using a Supor® membrane (hydrophilic polyestersulphone (PES) of 0.2µm)

Each batch is confirmed free of:

- Aerobic and anaerobic bacteria (Thioglycollate Broth at 37°C for 15 days)
- Fungi (Trypton Soy Broth at 25°C for 15 days)
- Mycoplasma (Hoechst direct staining method)

Quality Control Testing

Each batch of BriClone is tested for its ability to support / promote the growth of newly PEG fused hybridoma cells, plated in 48 well plates containing HAT selection medium with 5% BriClone over a 10-12 day time period. Test cells used are Sp2/0 mouse myeloma cells and immune splenocytes isolated from Balb/C mice.

Instructions for Use

Thaw and add to the hybridoma cloning medium as a 5% v/v supplement.

BriClone can be used for

- Hybridoma growth post-fusion (refer to your own protocol)
- Hybridoma Cloning (refer to your own protocol)

General Considerations

- This product is for in vitro research purposes only. Not for human or veterinary use.
- Always use BriClone under aseptic conditions
- This product has been produced using cells that have not been screened for Hepatitis B, Human immunodeficiency viruses or other agents.
- Handle as a potentially biohazardous material under at least Biosafety Level 1 containment.