

## National Institute for Cellular Biotechnology

# BriClone

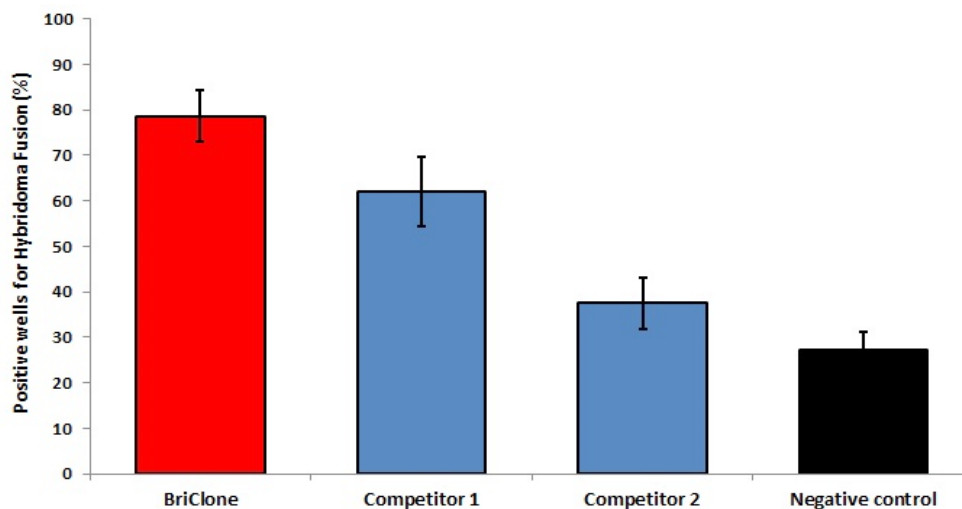
Hybridoma Cloning Additive

## Competitor 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.

Many commercial additives are available for improving the efficiency of cell cloning at the post-fusion stages of hybridoma production. In the following experiment, BriClone was compared to two competitors as a supplement for post-fusion hybridoma production.



*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). All supplements used at their recommended concentrations (BriClone: 5%; Competitor 1 & 2: 10%)*

Media supplemented with 5% BriClone resulted in an increased percentage of positive wells with hybridoma clones after fusion, when compared to two competitors: 17% increase in hybridoma-positive wells versus Competitor 1 ( $P < 0.05$ ) and 41% increase in hybridoma positive wells versus Competitor 2 ( $P < 0.01$ ).

Supplementation resulted in increased percentage of positive wells with hybridoma clones after fusion of 52% (BriClone), 35% (Competitor 1) and 10% (Competitor 2) compared to the non-supplemented Negative control.

Biological triplicate experiments performed; Negative control indicates no supplement added.



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## Origins of Components

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Dulbeccos Modified Eagle medium (DMEM): Non Animal Source

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

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## Volume

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10ml Sample Bottle

100ml Bottle

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## Storage Condition

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

Stable for short periods at +4°C

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## Shelf Life

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See expiry date on the label

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## Sterility

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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)

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## Quality Control Testing

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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.

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## Instructions for Use

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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)

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## General Considerations

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- 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.