Blasticidin S HCl in Mammalian Culture Determine Working Concentration

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Abstract

The working concentration of blasticidin S HCl for use in mammalian cell gene selection can range anywhere from 2-100µg/mL depending on the cell lines used.

Optimal doses typically range from 2-20µg/mL

However, we recommend performing a kill curve to determine the optimal dose for your cell lines.

Citation: Sean Seaver Blasticidin S HCl in Mammalian Culture Determine Working Concentration. **protocols.io** dx.doi.org/10.17504/protocols.io.cikucv
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Protocol

Step 1.
Plate 5x10^4 blasticidin sensitive host cells in 6-12 wells of a 24-well plate using appropriate media (without blasticidin) and incubate overnight.

REAGENTS
Blasticidin S HCl TE-B001 by P212121

DURATION
24:00:00

Step 2.
Replace media with fresh media containing 6-12 different concentrations (one for each well) of blasticidin S HCl.

REAGENTS
Blasticidin S HCl TE-B001 by P212121

DURATION
12:00:00

Step 3.
Continue replacing media with fresh blasticidin S HCl containing media every 3-4 days and monitor cells for normal activity.

REAGENTS
Blasticidin S HCl TE-B001 by P212121

DURATION
12:00:00

Step 4.
After 5-7 days, determine the lowest concentration of blasticidin S HCl containing media that killed

100% of blasticidin sensitive host cells.

This is the optimal dose to use for your selection procedure.

REAGENTS

Blasticidin S HCl TE-B001 by P212121

DURATION

24:00:00