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PRODUCT: Linear Hygromycin Marker

CATALOG No. 631625
AMOUNT 2 µg

LOT NUMBER
Specified on product label.

STORAGE CONDITIONS
Store at -20°C.

SHELF LIFE
1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONS
Blue ice (4°C) or dry ice (-70°C)

DESCRIPTION

Linear Hygromycin Marker is a short ds DNA fragment consisting of the hygromycin resistance gene regulated by the SV40 promoter and ending with the SV40 polyadenylation signal. The 2.1-kb marker is compatible with any expression vector (including Tet System vectors) for generating stable transfectants using CalPhos™ transfection reagent or a liposome-mediated transfection protocol.

COTRANSFECTION RATIO

The optimal ratio of marker DNA to expression vector DNA is 1:10–1:20 using CalPhos transfection reagent or a liposome-mediated transfection method.

PACKAGE CONTENTS

- 40 µl Linear Hygromycin Marker (50 ng/µl)

FOR RESEARCH USE ONLY

QUALITY CONTROL

- Digestion with *Hind* III/*Xba* I restriction enzymes produced fragments of 1.05, 0.6 & 0.45 kb.
- As a functional test, HEK 293 cells were transfected with 200 ng Linear Hygromycin Marker using a liposome-mediated transfection method. After 5 hr at 37°C, the transfection solution was removed and cells were given fresh media. 48 hr later, cells were plated in two 10-cm plates. 48 hr after plating, media containing hygromycin was added to the plates. After 2–3 weeks, a total of >20 clones was identified.



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