Certificate of Analysis

Lambda DNA/HindIII Markers:

Part No.

Size

G171A

100µд

Description: Lambda DNA/HindIII Markers are prepared by digesting Lambda DNA to completion with HindIII followed by heat-inactivation of the enzyme. The DNA fragments are then ethanol-precipitated and resuspended in storage buffer. The eight DNA fragments range in size from 125 to 23,130 base pairs.

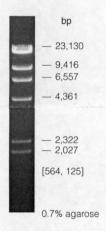
Concentration: 0.5mg/ml.

Storage Buffer: Lambda DNA/HindIII Markers are supplied in 10mM Tris-HCI, 10mM NaCl and 1mM EDTA. Final pH 7.5. Storage Conditions: Store at –20°C. See the expiration date on the product label.

Usage Notes:

- 1. Concentration gradients may form in frozen products and should be dispersed upon thawing. Mix well prior to use.
- 2. Due to the reannealing of cohesive ends, an extra band may appear above the 23,130bp fragment while the 23,130 and 4,361bp bands may decrease or disappear. To avoid this annealing, heat the marker at 65°C for 10 minutes in the presence of 1X restriction enzyme buffer, and then immediately chill on ice for 5 minutes before loading onto a gel.

Blue/Orange 6X Loading Dye (G190A): The Blue/Orange 6X Loading Dye supplied with these markers has a composition of 15% Ficoll® 400, 0.03% Bromophenol Blue, 0.03% Xylene Cyanol FF, 0.4% Orange G, 10mM Tris-HCI (pH 7.5) and 50mM EDTA. This dye is used for loading DNA samples into gel electrophoresis wells and tracking migration during electrophoresis. Recommended usage is one part loading dye for five parts DNA solution. The Xylene Cyanol FF migrates at approximately 4kb, Bromophenol Blue at approximately 300bp and Orange G at approximately 50bp in 0.5% to 1.4% agarose gels in 0.5X TBE buffer (1).



Quality Control Assays

Accurate Sizing: Lambda DNA/HindIII Marker is subjected to electrophoresis and visualized on an ethidium bromide-stained agarose gel to confirm the correct banding pattern (size of fragments).

Purity: $A_{260}/A_{250} \ge 1.05$; $A_{260}/A_{280} \ge 1.80$.

Nuclease Assay: Lambda DNA/Hindlll Marker is incubated in 1X restriction enzyme buffer for 16 hours at 37°C. Following incubation, the marker is subjected to electrophoresis and visualized on an ethidium bromide-stained agarose gel to confirm the absence of visible degradation.

Reference

 Sambrook, J., Fritsch, E.F. and Maniatis, T. (1989) Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Signed by:

R Wheeler Quality Assurance

Lambda DNA/HindIII Markers

REF G1711
-30°C 1 -10°C
Conc: 500µg/ml

100µg

LOT 0000316864 2022-05-31 Dispensed Lot#: 000029386



For Laboratory Use

Country of Origin: USA

Promega Corporation 2800 Woods Hollow Road Madison, WI 53711-5399 USA





ADG1711 00003168640



Promega Corporation 2800 Woods Hollow Road Madison, WI 53711-5399 USA Telephone 608-274-4330 Toll Free 800-356-9526 Fax 608-277-2516 Internet www.promega.com

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

Promega manufactures products for a number of intended uses. Please refer to the product label for the intended use statements for specific products. Promega products contain chemicals which may be harmful if misused. Due care should be exercised with all Promega products to prevent direct human contact.

Each Promega product is shipped with documentation stating specifications and other technical information. Promega products are warranted to meet or exceed the stated specifications. Promega's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. Promega makes no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, CONDITION, OR ANY OTHER MATTER WITH RESPECT TO PROMEGA PRODUCTS. In no event shall Promega be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of Promega products to perform in accordance with the stated specifications.

© 1996–1998, 2001, 2007, 2009, 2016 Promega Corporation. All Rights Reserved.

Ficoll is a registered trademark of GE Healthcare Bio-sciences.

All specifications are subject to change without prior notice.

Product claims are subject to change. Please contact Promega Technical Services or access the Promega online catalog for the most up-to-date information on Promega products.

Part# 9PIG171 Printed in USA. Revised 12/16