

Yeast Chromosome PFG Marker



1-800-632-7799
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www.neb.com



N0345S 045130515051

N0345S

50 gel lanes **Lot: 0451305** **Exp: 5/15**

50 µg/ml **Store at -20°C**

Description: Chromosomes isolated from *Saccharomyces cerevisiae*, strain YPH80 embedded in 1% LMP agarose and supplied in a GelSyringe™ dispenser. Designed for use as size markers for pulsed-field gel electrophoresis (PFG). Size range: 225–1,900 kb.

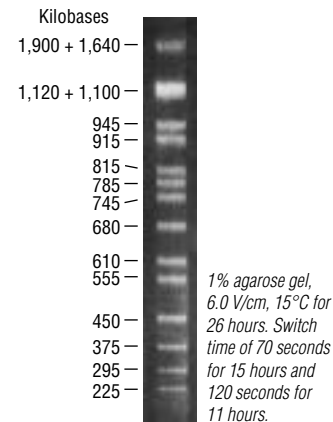
Source: *Saccharomyces cerevisiae* YPH80

Supplied in: 1% LMP agarose, 0.25 M EDTA (pH 9.0) and 50% glycerol in a GelSyringe dispenser.

To Use: Extrude agarose from GelSyringe carefully and slice plugs from the end with a sharp blade. One plug is sufficient for one lane of a gel. Place the plug at the front of the well and seal with molten agarose. Allow no bubbles to form.

Plug Sizes: Recommended plug size is 20 µl (two small graduations on the syringe volume scale), which contains approximately 1 µg of DNA. Each syringe yields 25+ plugs.

The photograph represents the pulsed field gel separation of Yeast Chromosomes using a CHEF apparatus. The 1% agarose gel was run at 6 volts/cm using pulse times of 70 seconds (15 hours) and 120 seconds (11 hours) at 15°C in 0.5X TBE buffer (50 mM Tris-HCl, 50 mM boric acid, 1 mM EDTA) made with Milli-Q™ water, allowing resolution of 15 of the 16 Yeast Chromosomes. Chromosomes VII and XV appear as a single band. Chromosome XII may display anomalous electrophoretic behavior.



Chromosome	Size (kb)
XII	1,900
IV	1,640
VII	1,120
XV	1,100
XVI	945
XIII	915
II	815
XIV	785
X	745
XI	680
V	610
VIII	555
IX	450
III	375
VI	295
I	225

(see other side)

CERTIFICATE OF ANALYSIS

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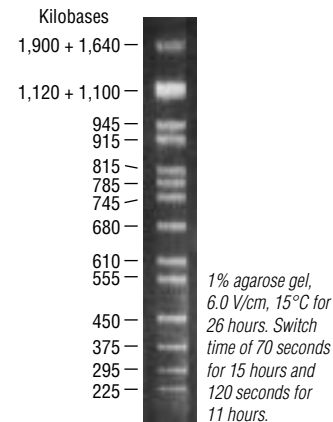
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References:

1. Carle, G. and Olson, M. (1985) *Proc. Natl. Acad. Sci. USA* 82, 3756.
2. Mortimer, R. and Schild, D. (1985) *Microbiol. Rev.*, 49, 181.
3. Claus, T. and Akbari, T. unpublished observations.

References:

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