

## Yeast Chromosome PFG Marker



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



N0345S 045120214021

# N0345S

50 gel lanes Lot: 0451202 Exp: 2/14

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.

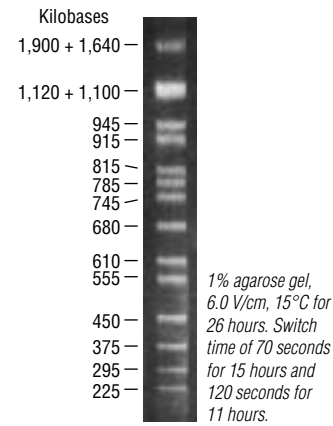
**Source:** *Saccharomyces cerevisiae* YPH80

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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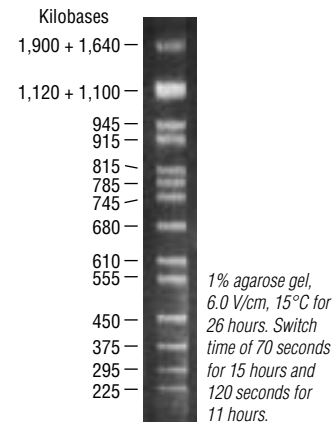
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CERTIFICATE OF ANALYSIS

**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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