For life science research only. Not for use in diagnostic procedures.

Print

# DNA Molecular Weight Marker X (0.07–12.2 kbp)

Mixture of 1018 bp DNA fragment with its multimers and pBR322 DNA fragments

**Cat. No. 11 498 037 001**

100 µg ≙ 2 $A_{260}$ units

100 µg (400 µl) for 50 gel lanes

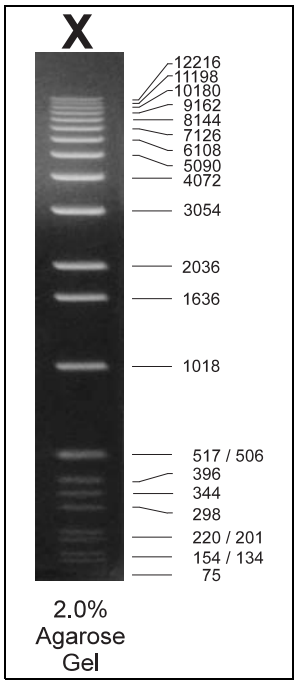
**Version 16**

Content version: February 2006

Store at −15 to −25°C

## Product overview

| | |
|---|---|
| **Formulation** | Solution in 10 mM Tris -HCl, 1 mM EDTA, pH 8 |
| **Concentration** | 250 µg/ml |
| **Size distribution** | Fragment mixture of a 1018 bp fragment derived from the 2 µ plasmid of the yeast *Saccharomyces cerevisiae* (1), multimers of this fragment, and cleavage products from pBR322 DNA.<br>The mixture contains 23 DNA fragments with the following number of base pairs: (1 base pair ≙ 660 daltons): 12 216, 11 198, 10 180, 9162, 8144, 7126, 6108, 5090, 4072, 3054, 2036, 1636, 1018, 517, 506, 396, 344, 298, 220, 201, 154, 134, 75. |
| **Application** | Molecular weight marker for the size determination of DNA in agarose gels. |
| **Properties** | After electrophoresis of 2 µg of the fragment mixture in a 2% agarose gel 19 bands are visible. The 517 bp and 506 bp fragment run as one band.<br>The 75 bp fragment cannot be detected due to its small size. |
| **Typical analysis** | The DNA fragment mixture shows the banding pattern described above after electrophoresis in a 2% agarose gel. |
| **Separation conditions** | Apply 2 µg DNA per lane on a 2% Agarose MP* gel. |
| **Handling instructions** | The molecular weight marker should be heated at +65°C for 5 min before loading onto the agarose gel, because the 1018 bp fragment and its multimers have sticky ends. |
| **Storage/stability** | The unopened vial is stable at −15 to −25°C until the expiration date printed on the label<br>***Note***: This product is shipped in dry ice and should be stored at −15 to −25°C until use.<br>Once thawed we recommend further storage at +2 to +8°C. Repeated freezing and thawing should be avoided. |
| **Changes to previous version** | Regulatory Disclaimer updated |
| **Trademarks** | All product names and trademarks are the property of their respective owners. |
| **References** | 1 Hartley, J. L. & Donelson, J. E. (1980) *Nature* **286,** 860–865. |




**Printed Materials**

| |
|---|
| LabFAQs "Find a Quick Solution" |
| Molecular Weight Markers for Nucleic Acids |
| or available at **http://www.roche-applied-science.com/prod_inf/applic/mwm.pdf** |
| Restriction Enzyme Ordering Guide |
| Restriction Enzyme Poster |

* available from Roche Applied Science

## Contact and Support

To ask questions, solve problems, suggest enhancements or report new applications, please visit our **Online Technical Support Site** at:

**www.roche-applied-science.com/support**

To call, write, fax, or email us, visit the Roche Applied Science home page, www.roche-applied-science.com, and select your home country. Country-specific contact information will be displayed. Use the Product Search function to find Pack Inserts and Material Safety Data Sheets.

Roche Diagnostics GmbH
Roche Applied Science
68298 Mannheim
Germany

0911.**11523317001**