



***BERUS* 1KB DNA Ladder** **(WF- WF10408001)**

Overview

Our high-quality DNA ladders are comprised of a set of different sized DNA fragments. According to molecular weight, these fragments of DNA can be separated and visualised as distinct DNA bands on 1% agarose and SDS DNA gels. The *BERUS* 1KB DNA ladder is designed and ready to use for the electrophoretic separation and quantification of double-stranded DNA. The ladder consists of 10 fragments that range in size from 0.5KB to 10KB. The 3KB fragment and 1KB fragment are present at increased intensity to allow easy identification.

Features of *BERUS* 1KB DNA Ladder

- Clear banding** – Helps to visually identify key molecular weights
- Distinct separation** – Purified fragments of DNA to aid accurate identification of your gene. The 3KB fragment and 1KB fragment are present at increased intensity to allow easy identification.
- Versatile** – Optimised for easy analysis
- Read-to-use** – The DNA ladder is ready to use, reducing set-up time

Product information

When placing an order with us, please quote the Catalog No.

Catalog number	Size	Volume	No. of reactions
WF10408001	50µg	100µL	100

Required materials

- Template DNA
- DNase free Eppendorfs
- Agarose
- Pipettes and tips
- TAE or TBE buffer
- Gel casting equipment

Storage conditions

The reagents provided in the *BERUS* 1KB DNA Ladder should be stored at -20°C. Where possible stored reagents in conditions of non-frost-free. Avoid freeze-thaw cycles. We recommend aliquoting the DNA ladder product upon delivery.

Warning!

Please be advised to wear appropriate eyewear, clothing and gloves. Read the Safety Data Sheets (SDS) for any further safety information.

Do not heat the *BERUS* 1KB DNA Ladder before loading onto the Agarose gel.

Ensure the same volume of DNA ladder and DNA sample is loaded on the Agarose gel.

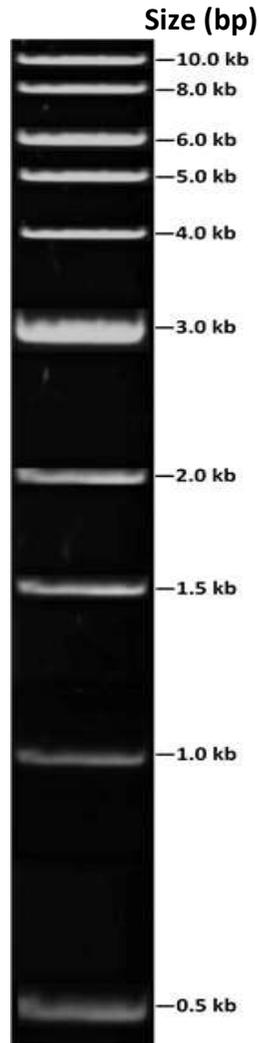
Any further information

For further information and protocols, visit our website <https://willowfort.co.uk/>. For any additional support, please contact us through <https://willowfort.co.uk/contact-us>

For research use only. These products should not be used for diagnostics

Product information about *BERUS* 1KB DNA Ladder:

This *BERUS* 1KB DNA ladder is ready to use in 1% agarose gel, depending on the size of the DNA fragments.



Suggested Protocol for preparing and using the *BERUS* 1KB DNA ladder:

Agarose gel preparation

1. Weigh the agarose according to the separation needed for the DNA fragments.
2. Add to TAE or TBE buffer and mix well.
3. Microwave the agarose solution until a rolling boil is observed.
4. Cast the gel into an appropriate mould, adding the well comb before the agarose sets.

DNA ladder preparation

5. Add the newly set agarose gel to the gel tank, removing any necessary equipment used to cast the gel.
6. Thaw the DNA ladder and mix thoroughly.
7. Load 1-2 μ L of the DNA ladder into a well of the agarose gel.

DNA sample

8. Prepare your DNA samples by adding gel loading buffer according to product protocol.
9. Mix the sample and buffer gently.
10. Add each sample to a separate well in the agarose gel.

Running Gel electrophoresis

11. Add a suitable amount of Gel running buffer (TAE or TBE buffer) to the gel tank.
12. Set the voltage suitable for the DNA fragment size
13. Connect all appropriate equipment and perform electrophoresis on the gel.
14. Once electrophoresis is complete, the DNA ladder and DNA bands from the sample can be viewed using a UV or light transilluminator depending on the agent used in the DNA samples.

Troubleshooting – For any troubleshooting queries, please visit our website <http://willowfort.co.uk/molecular-biology-reagents/berus-1kb-ladder>.

Any further information, please contact us, via <https://willowfort.co.uk/contact-us>.