

DNA Marker (100-5000 bp)

Product description

DNA Marker (100-5000 bp) is a ready-to-use molecular weight standard, composed of eight purified linear double-stranded DNA fragments of 5000 bp, 3000 bp, 2000 bp, 1000 bp, 750 bp, 500 bp, 250 bp and 100 bp. The 750 bp band acts as the reference band at a concentration of 20 ng/μL, while all other bands are 10 ng/μL. The molecular weight and concentration of test samples can be estimated according to the migration position and brightness of bands after electrophoresis. Pre-mixed with loading buffer, this marker can be loaded directly for agarose gel electrophoresis analysis. It is compatible with nucleic acid stains including Safe DNA Gel Stain (Catalog No. A8743) and Hyper Gel Red (Catalog No. A8746).

Composition and storage conditions

Components	Size	500 μL	2×500 μL	Storage
	DNA Marker (100-5000 bp)		500 μL	2×500 μL
Shipping: Blue Ice		Shelf life: 12 months		

Experimental operation

Load 5 μL of DNA Marker into 5 mm agarose gel wells; adjust loading volume according to well size.

Notes

1. Stable for 12 months at 4 °C. For long-term storage, store at -20 °C and avoid repeated freeze-thaw cycles.
2. Smearing is a common issue in agarose electrophoresis, typically caused by insufficient gel stain. Improve results by increasing stain concentration or reducing Marker loading volume.
3. Do not reuse gels repeatedly or leave them immersed in running buffer for extended periods, as this may cause stain precipitation.
4. This product is for research use only.



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