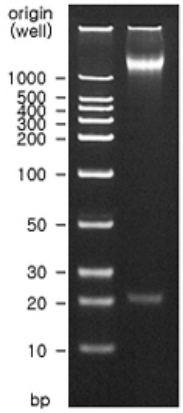
dsRNA Marker

Catalog # R0005 Size 25 ug

Applications



dsRNA Marker

Electrophoresis of dsRNA Marker at the left lane and a long dsRNA digested by dicer at the right lane, on 7.5 % of polyacrylamide, 1 × TBE buffer

Specification

Product Description	The dsRNA Marker consists of ten double-stranded RNAs, 10, 20, 30, 50, 100, 200, 300, 400, 500 a nd 1,000 base pairs. The dsRNA Marker is an ideal size marker for determinating sizes of double-str anded RNAs. A twenty bp of RNA band including in the dsRNA Marker is adjusted to approximately 25 ng/ul in concentration. The dsRNA Marker is manufactured for non-denaturing polyacrylamide gel electrophoresis. The dsRNA Marker can be visualized by UV light after ethidium bromide staining.
Quality Control Testing	After 18 hr incubation of the dsRNA Marker at 37°C, no visible degradation of the marker is observe d in 7.5 % polyacrylamide gel electrophoresis.
Recommend Usage	2 uL/lane
Storage Buffer	10 mM Tris-HCl (pH 7.5), 50 mM NaCl , 1 mM EDTA
Storage Instruction	Store at -80 °C. Repeated freeze/thaw cycles should be avoided.

Note	Even dsRNA is more resistant to RNase than ssRNA, dsRNA is sensitive to degradation by RNase. To avoid damaging the dsRNA Marker, use care during manipulations to prevent nuclease contamination. Wear gloves and use clean apparatus. Glassware should be pretreated with diethyl pyrocarbonate (DEPC). Nuclease-free disposable plasticware should be used. Solutions and reagents to mix the marker should be high grade and nuclease-free. To use, thaw the dsRNA Marker on ice and keep it on ice while using.

Applications

- Electrophoresis

Publication Reference

- Extracellular RNAs-TLR3 signaling contributes to cognitive decline in a mouse model of postoperative cognitive dysfunction.

  Chen C, Gao R, Li M, Wang Q, Chen H, Zhang S, Mao X, Behensky A, Zhang Z, Gan L, Li T, Liao R, Li Q, Yu H, Yang J, Zhu T, Liu J.

  Brain, Behavior, and Immunity 2019 Aug; 80:439.

  Application: Electrophoresis, Mouse, RNA of HT-22 and C8-B4 cells