

siRNA Marker



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



N2101S 01011213121

100 gel lanes (4.5 µg) Lot: 0101112 Exp: 12/13

9 ng/µl Store at -20°C

Description: The siRNA Marker consists of three synthetic non-phosphorylated siRNA duplexes that are 17, 21 and 25 base pairs in length with 2-base 3' overhangs. This marker is suitable for use as an siRNA size standard on native polyacrylamide gels (Figure 1).

Supplied in: 5% glycerol, 1 mM EDTA and 0.008% orange G.

Recommended Loading Amount:
5–10 µl per lane

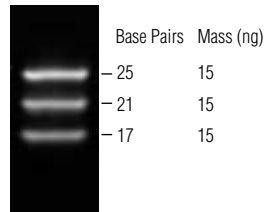


Figure 1: 45 ng (5 µl) of siRNA Marker on a 20% TBE polyacrylamide gel electrophoresis.

25-mer (15,941 Da):

5' - AUCGUCAAACACAGGCCACUGCUAA
UUUAGCAGUUUGUGUCCGGUGACGA - 5'

21-mer (13,369 Da):

5' - AUCUCAACCAGCCACUGCUAA
UUUAGAGUUGGUCGGUGACGA - 5'

17-mer(10,789 Da):

5' - CUCAACCAGCCACUGCU
UAGAGUUGGUCGGUGAC - 5'

Figure 2: Three synthetic annealed siRNA duplexes.

Molecular Weight: The average molecular weight of the 21 bp siRNA duplex is ~ 13,300 g/mol.

Note: The duplexes share some sequence similarities (Figure 2). Therefore, incomplete denaturation/reannealing will result in different sized species. For denaturing gels, we recommend the microRNA Marker (NEB #N2102S)

Companion Products:

ShortCut® RNAi Kit
#E2450S 100 transfections

microRNA Marker
#N2102S 100 gel lanes (6 µg)

CERTIFICATE OF ANALYSIS

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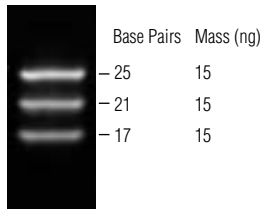


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