

## New England Biolabs Certificate of Analysis

**Product Name:** *p19 siRNA Binding Protein*  
**Catalog Number:** *M0310S*  
**Concentration:** *10,000 U/ml*  
**Unit Definition:** *One unit is defined as the amount of protein that binds to 10 ng of siRNA at 25°C in 1 hour.*  
**Lot Number:** *10028756*  
**Expiration Date:** *02/2021*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl, 150 mM NaCl, 0.5 mM DTT, 1 mM EDTA, 50% Glycerol, (pH 7.5 @ 25°C)*  
**Specification Version:** *PS-M0310S v1.0*

p19 siRNA Binding Protein Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0310SVIAL	p19 siRNA Binding Protein	10027140	Pass
B0310SVIAL	p19 Binding Buffer	10027141	Pass

Assay Name/Specification	Lot # 10028756
<p><b>Endonuclease Activity (Nicking)</b>            A 50 µl reaction in p19 siRNA Binding Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 units of p19 siRNA Binding Protein incubated for 4 hours at 37°C results in &lt;10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p><b>Exonuclease Activity (Radioactivity Release)</b>            A 50 µl reaction in p19 siRNA Binding Buffer containing 1 µg of a mixture of single and double-stranded [<sup>3</sup>H] E. coli DNA and a minimum of 100 units of p19 siRNA Binding Protein incubated for 4 hours at 37°C releases &lt;0.1% of the total radioactivity.</p>	Pass
<p><b>Non-Specific DNase Activity (16 Hour)</b>            A 50 µl reaction in p19 siRNA Binding Buffer containing 1 µg of Lambda DNA and a minimum of 100 units of p19 siRNA Binding Protein incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.

*John D. Greci*

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John Greci  
Production Scientist  
07 Feb 2019

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
07 Feb 2019