

## New England Biolabs Product Specification

*Product Name:* RNA Loading Dye, (2X)  
*Catalog #:* B0363S  
*Concentration:* 2X Concentrate  
*Shelf Life:* 24 months  
*Storage Temp:* -20°C  
*Composition (1X):* 47.5% Formamide, 0.01% SDS, 0.01 % Bromophenol Blue, 0.005% Xylene Cyanol, 0.5 mM EDTA  
*Specification Version:* PS-B0363S v1.0  
*Effective Date:* 23 May 2018

Assay Name/Specification (minimum release criteria)
<p><b>Endonuclease Activity (Nicking, Buffer)</b> - A 50 µl reaction in 1X RNA Loading Dye, (2X) containing 1 µg of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in &lt;10% conversion to the nicked form as determined by agarose gel electrophoresis.</p> <p><b>RNase Activity (Buffer)</b> - A 10 µl reaction in 1X RNA Loading Dye, (2X) containing 40 ng of a 300 base single-stranded RNA is incubated at 37°C. After incubation for 16 hours, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis.</p>



Date 23 May 2018

Derek Robinson  
Director of Quality Control

