

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>E. coli Ribosome</i>
<i>Catalog #:</i>	<i>P0763S</i>
<i>Concentration:</i>	<i>13 μM</i>
<i>Shelf Life:</i>	<i>24 months</i>
<i>Storage Temp:</i>	<i>-80°C</i>
<i>Storage Conditions:</i>	<i>30 mM KCl, 20 mM HEPES-KOH, 10 mM MgAC<sub>2</sub>, 7 mM β-mercaptoethanol, (pH 7.6 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-P0763S v2.0</i>
<i>Effective Date:</i>	<i>25 Jan 2021</i>

### Assay Name/Specification (minimum release criteria)

**Functional Testing (Cell Free Protein Synthesis Assay) (DHFR)** - A 25 μl reaction in the presence of 250 ng PURExpress<sup>®</sup> Control DHFR Plasmid and 20 units RNase Inhibitor containing the components of the PURExpress<sup>®</sup> Δ Ribosome Kit incubated for 2 hours at 37°C results in the expected 20 kDa product as determined by SDS-PAGE with Coomassie Blue detection.

**Functional Testing (Cell Free Protein Synthesis Assay) (Vent DNA Polymerase)** - A 25 μl reaction in the presence of 250 ng Vent DNA Polymerase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress<sup>®</sup> Δ Ribosome Kit incubated for 2 hours at 37°C results in the expected 89 kDa product as determined by SDS-PAGE with Coomassie Blue detection.

**Functional Testing (Cell Free Protein Synthesis Assay) (β-galactosidase)** - A 25 μl reaction in the presence of 250 ng β-galactosidase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress<sup>®</sup> Δ Ribosome Kit incubated for 2 hours at 37°C results in the expected 116 kDa product as determined by SDS-PAGE with Coomassie Blue detection.

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