

## New England Biolabs Certificate of Analysis

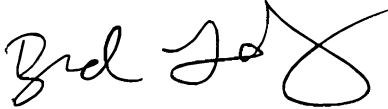
**Product Name:** *Oligo d(T)<sub>25</sub> Magnetic Beads*  
**Catalog Number:** *S1419S*  
**Concentration:** *5 mg/ml*  
**Packaging Lot Number:** *10163511*  
**Expiration Date:** *01/2025*  
**Storage Temperature:** *4°C*  
**Storage Conditions:** *0.02 % NaN<sub>3</sub>, 0.05 % Tween®20, 1 X PBS, (pH 7.4 @ 25°C)*  
**Specification Version:** *PS-S1419S v2.0*

Oligo d(T) <sub>25</sub> Magnetic Beads Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S1419SVIAL	Oligo d(T) <sub>25</sub> Magnetic Beads	10137172	Pass

Assay Name/Specification	Lot # 10163511
<p><b>Non-Specific DNase Activity (16 hour, Buffer)</b> A 50 µl reaction in Oligo d(T)<sub>25</sub> Magnetic Bead Storage Buffer containing 1 µg of PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	<b>Pass</b>
<p><b>RNase Activity (Extended Digestion)</b> A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Oligo d(T)<sub>25</sub> Magnetic Beads is incubated at 37°C. After incubation for 16 hours, &gt;90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	<b>Pass</b>
<p><b>Functional Testing (mRNA Isolation)</b> Oligo d(T)<sub>25</sub> Magnetic Beads were equilibrated and incubated with freshly prepared eukaryotic cell lysate for direct mRNA isolation. The beads were washed and the mRNA eluted. The eluate was evaluated on an Agilent Bioanalyzer and the enriched poly(A)+ RNA contains ≤15% rRNA.</p>	<b>Pass</b>
<p><b>Binding Capacity (Magnetic Beads)</b> Oligo d(T)<sub>25</sub> Magnetic Beads ( 500 µg ) were equilibrated and incubated with 100 µl of 67 µg/ml rA30 for 15 minutes at 25°C, then washed and the rA30 eluted. Binding capacity was determined to be &gt;5 µg of rA30 per µg of beads.</p>	<b>Pass</b>

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

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Brad Landgraf  
Production Scientist  
01 Sep 2022



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Michael Tonello  
Packaging Quality Control Inspector  
01 Sep 2022