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# New England Biolabs Certificate of Analysis 

Product Name:<br>Catalog Number:<br>Concentration:<br>Packaging Lot Number:<br>Expiration Date:<br>Storage Temperature:<br>Specification Version:<br>Composition (1X):<br>Recombinant Albumin, Molecular Biology Grade<br>B9200S<br>$20 \mathrm{mg} / \mathrm{ml}$<br>10052379<br>08/2022<br>$-20^{\circ} \mathrm{C}$<br>PS-B9200S v1.0<br>20 mM Tris-HCl, 100 mM KCl, 0.1 mM EDTA, 50 \% Glycerol, (pH 8.0 @ $25^{\circ} \mathrm{C}$ )

Recombinant Albumin, Molecular Biology Grade Component List

| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| :--- | :--- | :--- | :---: |
| B9200SVIAL | Recombinant Albumin, Molecular Biology G | 10052380 | Pass |


| Assay Name/Specification | Lot \# 10052379 |
| :---: | :---: |
| Single Stranded DNase Activity (FAM-Labeled Oligo) <br> A $50 \mu \mathrm{l}$ reaction in CutSmart(8) Buffer containing a 20 nM solution of a fluorescent internal labeled oligonucleotide and a minimum of $100 \mu \mathrm{~g}$ of Recombinant Albumin, Molecular Biology Grade incubated for 16 hours at $37^{\circ} \mathrm{C}$ yields $<5 \%$ degradation as determined by capillary electrophoresis. | Pass |
| RNase Activity (Extended Digestion) <br> A $10 \mu$ reaction in NEBuffer 4 containing 40 ng of fluorescein labeled RNA transcript and a minimum of $20 \mu \mathrm{~g}$ of Recombinant Albumin, Molecular Biology Grade is incubated at $37^{\circ} \mathrm{C}$. After incubation for 16 hours, $>90 \%$ of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection. | Pass |
| qPCR DNA Contamination (E. coli Genomic) <br> A minimum of $20 \mu \mathrm{~g}$ of Recombinant Albumin, Molecular Biology Grade is screened for the presence of E . coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is $\leq 1 \mathrm{E}$. coli genome. | Pass |
| Endonuclease Activity (Nicking) <br> A $50 \mu$ reaction in NEBuffer 4 containing $1 \mu \mathrm{~g}$ of supercoiled PhiX174 RF I DNA and a minimum of $20 \mu \mathrm{~g}$ of Recombinant Albumin, Molecular Biology Grade incubated for 4 hours at $37^{\circ} \mathrm{C}$ results in $<20 \%$ conversion to the nicked form as determined by agarose | Pass |



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


Production Scientist
26 Jun 2020


Michael Tonello
Packaging Quality Control Inspector
26 Jun 2020

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