

New England Biolabs Certificate of Analysis

Product Name: Recombinant Albumin, Molecular Biology Grade
Catalog Number: B9200S
Concentration: 20 mg/ml
Packaging Lot Number: 10163928
Expiration Date: 06/2025
Storage Temperature: -20°C
Specification Version: PS-B9200S v1.0
Composition (1X): 20 mM Tris-HCl, 100 mM KCl, 0.1 mM EDTA, 50 % Glycerol, (pH 8.0 @ 25°C)

Recombinant Albumin, Molecular Biology Grade Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10150376	Pass

Assay Name/Specification	Lot # 10163928
<p>RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of fluorescein labeled RNA transcript and a minimum of 20 µg of Recombinant Albumin, Molecular Biology Grade is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass
<p>Single Stranded DNase Activity (FAM-Labeled Oligo) A 50 µl reaction in CutSmart® Buffer containing a 20 nM solution of a fluorescent internal labeled oligonucleotide and a minimum of 100 µg of Recombinant Albumin, Molecular Biology Grade incubated for 16 hours at 37°C yields <5% degradation as determined by capillary electrophoresis.</p>	Pass
<p>Protein Concentration (A280) The concentration of Recombinant Albumin, Molecular Biology Grade is 20 mg/ml +/- 5% as determined by UV absorption at 280 nm. Protein concentration is determined by the Pace method using the extinction coefficient of 34,445 and molecular weight of 66,438 daltons for Recombinant Albumin, Molecular Biology Grade (Pace, C.N. et al. (1995) Protein Sci., 4, 2411-2423).</p>	Pass
<p>qPCR DNA Contamination (Eukaryotic Genomic) A minimum of 20 µg of Recombinant Albumin, Molecular Biology Grade is screened for the presence of eukaryotic genomic DNA using SYBR® Green qPCR with universal primers for the 18S rRNA locus. Results are quantified using a standard curve generated from</p>	Pass

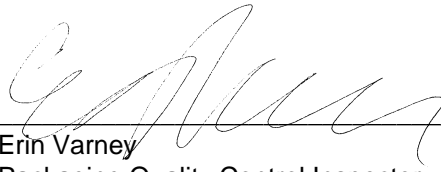
Assay Name/Specification	Lot # 10163928
<p>purified E. album genomic DNA. The measured level of eukaryotic genomic DNA contamination is ≤ 2.5 pg DNA/μl.</p>	
<p>qPCR DNA Contamination (E. coli Genomic) A minimum of 20 μg of Recombinant Albumin, Molecular Biology Grade is screened for the presence of 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 ≤ 1 E. coli genome.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 4 containing 1 μg of a mixture of single and double-stranded [3H] E. coli DNA and a minimum of 100 μg of Recombinant Albumin, Molecular Biology Grade incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 4 containing 1 μg of Lambda-HindIII DNA and a minimum of 100 μg of Recombinant Albumin, Molecular Biology Grade 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
<p>Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 4 containing 1 μg of supercoiled PhiX174 RF I DNA and a minimum of 20 μg of Recombinant Albumin, Molecular Biology Grade incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass

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

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01 Sep 2022



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