

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Recombinant Albumin, Molecular Biology Grade
Catalog Number:	B9200S
Concentration:	20 mg/ml
Packaging Lot Number:	10162618
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 # 10162618
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.	Pass
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.	Pass
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).	Pass
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	Pass





be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

Assay Name/Specification	Lot # 10162618
purified E. album genomic DNA. The measured level of eukaryotic genomic DNA contamination is \leq 2.5 pg DNA/µl.	
qPCR DNA Contamination (E. coli Genomic) A minimum of 20 μ 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 E. coli genome.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 4 containing 1 µg of a mixture of single and double-stranded [³ H] 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.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μ I reaction in NEBuffer 4 containing 1 μ g of Lambda-HindIII DNA and a minimum of 100 μ g 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.	Pass
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.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.





be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723

Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

Joe Cummings Production Scientist 24 Aug 2022

Erin Varney

Packaging Quality Control Inspector 24 Aug 2022

