

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 |





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| Assay Name/Specification | Lot # 10162618 |
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| 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.

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