

CERTIFICATE OF ANALYSIS

Product:	Carrier-ACRYL
Catalog No:	C081, C082
Lot No:	C081122027
Date of Expiry:	12/2027
Composition:	Linear polyacrylamide in deionized and sterile water (18 Mohm.cm) at concentration ~25 mg/ml.
Storage temperature:	For short terms (months) at temperature $+4^{\circ}\text{C} \pm 3^{\circ}\text{C}$. For long terms at temperature $-20 \pm 5^{\circ}\text{C}$. Material can be repeatedly defrosted.
UV (Abs. 10 mm)	220 nm = 21 ± 2 ; 240 nm = <0.1 ; 260 nm < 0.1 .
Functional Test:	Each batch of Carrier-ACRYL is analyzed in several assays. For the assays, DNA or RNA is examined in the Carrier Assay Buffer (CAB): 10 mM Tris-HCl, 2 mM MgCl_2, 1 mM dithiothreitol, pH 7.5 at 37°C. Nucleic acid precipitation assay. Economy DNA marker (Cat. No. D071, 2.5 μl) is mixed with 0.2 ml 10 mM Tris buffer, pH 8.0 + 1 mM EDTA, 1 μl Carrier-ACRYL, 20 μl of 3 M sodium acetate, pH 5.2, and 0.6 ml of 96% Ethanol. After 30 minutes at $2 - 8^{\circ}\text{C}$ the mixture is centrifuged for 10 min at $12,000 \times g$, analyzed by electrophoresis in agarose gel with ethidium bromide and observed under UV light. More than 90% of all components of the DNA marker is recovered in the precipitate. Nick activity assay. Plasmid pUC19 (1 μg) in 50 μl CAB with Carrier-ACRYL (50 μg) is incubated for 1 hour at 37°C, followed by electrophoresis in agarose gel with ethidium bromide. No nicking activity is observed. Ribonuclease assay. RNA (1 μg) in 50 μl CAB with Carrier-ACRYL (50 μg) is incubated for 1 hour at 37°C, followed by electrophoresis in agarose gel with ethidium bromide. No changes in properties of RNA are observed under UV light.
Result:	passed

FOR RESEARCH USE**APPROVED DATE:** 04.09.2025

Manager: Hana Těšitelová