

Rabbit Reticulocyte Lysate, Endogenous mRNA Free

Cat. No. RRL-01RCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Reticulocyte Lysate, Endogenous mRNA Free, is prepared from New Zealand white rabbits. After the reticulocytes are lysed, the extract is treated to eliminate endogenous mRNA and thus reduce background translation to a minimum. The lysate contains the cellular components necessary for protein synthesis (essential cellular components such as tRNA, ribosomes, amino acids, and initiation, elongation, and termination factors).
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Source	Rabbit
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Description	Rabbit Reticulocyte Lysate (RRL) is a commonly used reagent kit for cell-free protein expression systems, primarily utilized in in vitro translation studies. This system supports efficient protein synthesis by providing essential cellular components such as tRNA, ribosomes, amino acids, and initiation, elongation, and termination factors. Additionally, the RRL system can perform post-translational modifications, including phosphorylation, acetylation, and isoprenylation. Signal peptide cleavage and core glycosylation can also be achieved by adding canine pancreatic microsomal membranes.
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Source	Rabbit
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Form	Solution/Lyophilized
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Quality Control	Activity Assay: Perform in vitro translation using known mRNA templates and verify protein expression through radioactive labeling (such as ³⁵ S-methionine) or Western
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Blot analysis.

Purity Assessment: Nucleic Acid Residue: Examine the degradation of endogenous RNA by performing agarose gel electrophoresis to ensure complete degradation.

Storage

Store it at -20 - -80 centigrade. Avoid repeated freeze-thaw cycles.

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