

Title (en)

METHOD FOR SELECTIVELY AND REVERSIBLY ADSORBING NUCLEIC ACIDS ON A CARRIER MATERIAL

Title (de)

VERFAHREN ZUR SELEKTIVEN, REVERSIBLEN ADSORPTION VON NUKLEINSÄUREN AN EIN TRÄGERMATERIAL

Title (fr)

PROCEDE D'ADSORPTION SELECTIVE ET REVERSIBLE D'ACIDES NUCLEIQUES SUR UN SUPPORT

Publication

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Application

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Abstract (en)

[origin: EP1783220A1] A method for selective, reversible adsorption of nucleic acids on a substrate, comprises contacting nucleic-acid mixture with the substrate, in which the nucleic acids are adsorbed, purifying nucleic acids with an ethanol/isopropanol or a precipitating agent, and removing the nucleic acids bounded on the substrate by an aqueous solution exhibiting 1 mole of salt content, where the nucleic-acid mixture exhibits 1 mole of kosmotrope salts content, the kosmotrope is a sulfate, citrate or phosphate, and the substrate is a membrane and a filter. The method for selective, reversible adsorption of nucleic acids on a substrate, comprises contacting nucleic-acid mixture with the substrate, in which the nucleic acids are adsorbed, purifying nucleic acids with an ethanol/isopropanol or a precipitating agent, and removing the nucleic acids bounded on the substrate by an aqueous solution exhibiting 1 mole of salt content. The nucleic-acid mixture exhibits 1 mole of kosmotrope salts content. The kosmotrope is a sulfate, citrate or phosphate. The substrate is a membrane and a filter. The filter is a nitrocellulose filter or a hydrophilized nylon filter. The adsorbent consists of silica surfaces. In the contacting process, more than 1 molar solution of a kosmotrope salt is used. The purification is carried out after the aqueous two-phase separation of nucleic acids.

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