High-Salt Precipitation Solution Manual ver.1

Code No. 313-06341　　50 ml

General outline of the product

This product is a solution to be used when RNA is extracted by ISOGEN and ISOGEN-LS from a sample containing many polysaccharides, proteoglycans, glycogen and the like to control contamination by foreign substances more efficiently. In addition, this can be used with other nucleic acid extraction kits such as ISOPLANT and ISOPLANT II for the same purpose.

Composition

1.2 mol/l NaCl, 0.8 mol/l sodium citrate

Already autoclaved, and DNase and RNase free.

Storage

Store at room temperature.

Precautions

1. This product is a reagent for research and cannot be used for other objectives such as a drug.
2. Handle this product in accordance with the descriptions in the manual.

   We are not responsible for any problems caused if this product is not handled in accordance with the manual.

References

Chomczynski, P and Mackey, K. *BioTechniques.* 19, 492-495(1995).

Method for use

1. **Add 1/2 vol each of this product and isopropanol to a nucleic acid aqueous solution, and then mix by inverting.**[*1)]
2. **Leave standing at room temperature for 5-15 min.**
3. **Centrifuge at 10 K x g (4-20°C) for 15 min.**[*2)]
4. **Discard the supernatant and wash the precipitates with 70% ethanol.**

*1) Add isopropanol after adding the High-Salt Precipitation Solution to the nucleic acid solution and lightly mixing.

*2) At 12 K × g, the centrifuge time can be shortened to 8 min.

< Example of use > RNA extraction using ISOGEN

(1) Perform liquid layer separation (centrifugation) according to the ISOGEN protocol after homogenizing 1 ml of ISOGEN and a sample.

(2) Transfer the aqueous phase containing RNA to a fresh tube.

(3) Add 0.25 ml of isopropanol and lightly mix.*

(4) Add 0.25 ml of the High-Salt Precipitation Solution and mix by inverting.*

(5) Leave standing at room temperature for 5-15 min.

(6) Centrifuge (10 K × g, 4–20°C, 15 min).

(7) Add 70% ethanol (1-1.5 ml) to the precipitates and lightly vortex.

(8) Lightly air dry the precipitates, and then dissolve in ddH_2O or TE or the like.

*For every 1 ml of ISOGEN added to the sample, add isopropanol and this product at a rate of 0.25 ml.

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