User Manual

RapidClean™

Fast, simple, phenol-free purification of DNA and RNA samples

For Catalog Numbers

K-01001-010	RapidClean™ Kit, 10 reactions
K-01001-025	RapidClean™ Kit, 25 reactions
R-14011-250	RapidClean™ Resin, 0.25 ml
R-14011-B10	RapidClean™ Resin, 1 ml

April 16, 2020 | D-05020-010

Important Information

The following instructions are for use with RapidClean Resin and the RapidClean Kit, catalog numbers K-01001-010, K-01001-025, R-14011-250 and R-14011-B10.

The optimal pH range for RapidClean is 5.0 to 8.3, and optimal salt concentration is below 0.3 N.

Rapid clean is compatible with solutions containing the following commonly used reagents: Glycerol up to 10%, Ethanol up to 10%, Triton X-100 up to 0.1%, Tween-20 up to 0.1%, SDS up to 0.02%, Urea up to 0.5M, Guanidine Hydrochloride up to 0.05M.

Storage Information

RapidClean is supplied as a 25% slurry in water. For long term storage, keep the tube containing the resin upright in a rack at 4° C. Do not freeze, boil, or autoclave the resin. Protect the resin from long exposure to bright light, and do not allow the resin to dry.

Warnings and Precautions

- RapidClean is for research use only.
- Always wear gloves when handling reagents.
- Refer to MSDS for additional safety information.
- The product is guaranteed to be free of manufacturer defect, and to function as described when the enclosed protocol is followed by properly trained personnel. Please see the Warranty section for more information.

Protocol

Step	Notes
1. Vigorously vortex the tube to re-suspend RapidClean to homogeneity.	The resin settles quickly. If multiple samples are to be treated, vortex the resin frequently to make sure that suspension is uniform.
2. Add 1/10th volume of RapidClean to the mixture to be deproteinized. The final working concentration of RapidClean resin is 2.5%.	If total protein concentration is greater than 1 mg/ml, increase the resin/sample ratio to 1:5 or repeat the extraction 2 times

Step	Notes
3. Vortex the mixture for 10–15 sec.	If the DNA is of a high molecular weight, do not vortex the sample. Pipette the solution gently up and down instead, keeping RapidClean in suspension. Alternatively, gently rotate or invert the tube.
4. Transfer the solution with RapidClean into the spin filter insert of the filtration device included in the kit.	If the DNA is of high molecular weight and filtering through 0.22 µm filter is not desirable, spin down the solution from step 3 at maximum speed (14,000 rpm) for 5 minutes and then carefully aspirate supernatant to collect purified sample. Transfer it into a new tube and discard the pellet. Make sure that no resin is transferred with the sample. Some enzymes may retain their activity even when adsorbed to RapidClean resin.
5. Centrifuge the spin filtration device at maximum speed (14,000 rpm) for 1 min to filter out the resin with adsorbed protein.	
6. Discard the filter insert with used resin.	Do not re-use RapidClean resin.
7. The resulting collected filtrate contains nucleic acid free from protein.	
8. If further purification of the resulting nucleic acid from low molecular weight components (such as mononucleotides, salts, or short oligonucleotides up to 15–20 bases) is required, a simple standard Ethanol precipitation procedure may be performed.	

Warranty

This product is warranted to be free of defects of material or workmanship, and to perform as described in the published specifications when stored according to the documentation included with the product, and used according to the accompanying instruction manual by appropriately trained personnel. If the product is found to have a defect upon first use and within 30 days of shipment, the product may be replaced. This warranty extends only to the original purchaser of the product. There is no obligation to replace the product as a result of misuse, improper storage, or negligence of the buyer.

Advansta Corporation
2140 Bering Drive | San Jose, CA 95131
Tel: 650.325.1980 | Fax: 650.325.1904 | Email: sales@advansta.com
Product information: www.advansta.com/RapidClean