

# ArrayGrade™ cRNA Cleanup Kit

## Catalog Number

GA-012

## Contents

Reagents, spin columns, and tubes for 12 cRNA purifications

## Description

The ArrayGrade™ cRNA Cleanup Kit is designed to purify labeled cRNA from other reaction components following the TrueLabeling-AMP™ protocol. The special silica membrane Spin Column technology used in the kit makes the procedure fast and easy to perform with less than 30 minutes hands-on-time at room temperature. The Binding Buffer with its chaotropic components stabilizes and prevents degradation of the cRNA and allows optimal retention of the cRNA on the spin column. The Washing Buffer removes salts, metabolites, and macromolecular cellular components. Low ionic strength conditions elute pure cRNA from the column for hybridization to the microarray of your choice.

## Materials Included

*Please check the kit components immediately after you receive this package. SuperArray is not responsible for any missing items not reported within two (2) business days upon receipt.*

<u>Tube ID</u>	<u>Contents</u>
G6	Lysis and Binding Buffer
G17	Washing Buffer (Add 10 ml ethanol before use.)
G26	RNase-free 10 mM Tris pH 8.0
	Spin Columns (12, blue ring)
	Filter Columns (12, purple ring)
	Collection Tubes (12)
	Elution Tubes (12)

## Storage Conditions

The ArrayGrade™ cRNA Cleanup Kit is shipped at ambient temperature. Store the entire kit at room temperature.

**Shelf Life:** All reagents are stable for 6 months after receipt of the kit if stored at the recommended temperature.

## Related Products

Oligo GEArray® Microarrays (See [www.superarray.com/ArrayList.php](http://www.superarray.com/ArrayList.php) for complete listings)

TrueLabeling-AMP™ 2.0 (GA-030)

Oligo GEArray® Starter Kit (GA-029)

ArrayGrade™ Total RNA Isolation Kit (GA-013)

Oligo GEArray® Reagent Kit (GA-034)

## Product Specification Sheet



### **Brief Protocol**

First time users, please refer to the complete cRNA preparation protocol in the TrueLabeling-AMP 2.0 User Manual.

1. Bring the cRNA sample to a final volume of 100  $\mu$ l with RNase-free H<sub>2</sub>O in a 1.5-ml RNase-free tube. Store on ice.
2. Add 350  $\mu$ l Lysis & Binding Buffer (G6) to each sample. Mix well but gently with a pipettor.
3. Add 350  $\mu$ l of room temperature ACS-Grade 100% ethanol. Mix well but gently with a pipettor.
4. Load each sample onto the center of separate Spin Columns.
5. Insert Spin Column into Collection Tube. Centrifuge for ~ 30 sec at 8,000 x g.
6. Remove column from the tube, discard the flow-through, and put the column back into the tube.
7. Apply 600  $\mu$ l Washing Buffer (G17 + ethanol) to each spin column. Centrifuge for ~ 30sec at 8,000 x g. Be sure that all of the wash passes through the filter. Repeat spin if necessary.
8. Remove column from the tube, discard the flow-through, and put the column back into the tube.
9. Apply another 200  $\mu$ l Washing Buffer (G17 + ethanol) to each spin column. Centrifuge for ~ 3 min at 11,000 x g. Be sure that all of the wash passes through the filter. Repeat spin if necessary.
10. Transfer each Spin Column to a fresh Elution Tube.  
Be sure that the tip of the column never touches the flow-through material.
11. To the center of each spin column, add 50  $\mu$ l of room temperature RNase-free 10 mM Tris pH 8.0 (G26).  
**NOTE:** Be sure to visually inspect the column to insure that the buffer is centered.  
Tap the column gently if necessary to move the buffer to the center.
12. Incubate at room temperature for 2 min. Centrifuge for ~ 1 min at 8000 x g.  
Be sure that all of the buffer passes through the filter. Repeat spin if necessary.  
Store at -20°C for one to five days or at -80°C for six months or longer.