Instructions for Use of Product A2991.

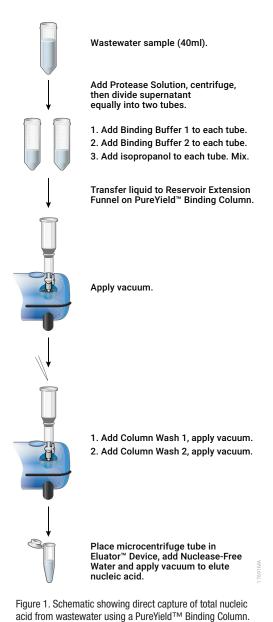


Quick Protocol

Standard Protocol for Capture, Concentration and Clean-Up

- 1. Dispense 40ml of pasteurized wastewater into a 50ml conical tube.
- 2. Add 0.5ml of Protease Solution. Mix by inversion and incubate for 30 minutes at ambient temperature.
- 3. Clarify sample by centrifuging at $3,000 \times g$ for 10 minutes.
- 4. Carefully decant 20ml of the supernatant into each of two new 50ml conical tubes.
- 5. To each tube containing 20ml of the clarified supernatant, add 6ml of Binding Buffer 1 (BBD) followed by 0.5ml of Binding Buffer 2 (BBE).
- 6. Mix well by inversion.
- 7. Add 24ml of isopropanol to each tube. Mix well by inversion.
- 8. Attach a Reservoir Extension Funnel to the PureYield[™] Binding Column, then connect the column to the vacuum manifold.
- 9. Pour the mixture from each tube from Step 8 into the Reservoir Extension Funnel on the PureYield[™] Binding Column.
- 10. Turn on the pump and apply vacuum to capture TNA on the column.
- 11. Add 5ml of Column Wash 1 (CWE) and apply a vacuum to pull the liquid through the PureYield[™] Binding Column.
- 12. Add 20ml of Column Wash 2 (RWA) and apply a vacuum to pull the liquid through the PureYield[™] Binding Column.
- 13. Continue the vacuum for an additional 30 seconds after all liquid has passed through the membrane.
- 14. Release the vacuum and remove the column from the vacuum manifold
- 15. Assemble the elution device by placing a 1.5ml microcentrifuge tube into the base of the Eluator[™] Vacuum Elution Device.
- 16. Place the Eluator[™] Device assembly onto a vacuum manifold.
- 17. Add 500µl of preheated (60°C) Nuclease-Free Water to the PureYield[™] Binding Column. Apply maximum vacuum until all liquid has passed through the column.
- Repeat the elution by adding another 500µl of preheated Nuclease-Free Water to the PureYield[™] Binding Column.

(continued)



Wizard[®] Enviro Total Nucleic Acid Kit

Instructions for Use of Product A2991

Total Nucleic Acid Extraction and Clean-Up

- Add 400µl of Binding Buffer 1 (BBD) and 100µl of Binding Buffer 2 (BBE) to 1. 1ml of liquid eluted.
- 2. Mix well by inversion and divide the contents into two 1.5ml tubes containing 750µl each.
- Add 750µl of isopropanol to each tube and mix well. 3.
- Place the PureYield[™] Minicolumn into a PureYield[™] Collection Tube. Pass 4. the entire volume of the mixture through the column, 750µl at a time, using a microcentrifuge set at 10,000rpm for 1 minute.
- Add 300µl of Column Wash 1 (CWE) and pull through the PureYield™ 5. Minicolumn by centrifugation. Discard the flowthrough.
- Add 500µl of Column Wash 2 (RWA) and pull through the PureYield™ 6. Minicolumn by centrifugation. Repeat wash once for a total of two washes. Discard the flowthrough.
- Centrifuge for 30 seconds to remove any residual wash solution. 7.
- 8. Transfer the PureYield[™] Minicolumn to a new 1.5ml microcentrifuge tube. Add 20µl of preheated (60°C) Nuclease-Free Water to the column. Let the water soak into the column filter for approximately 1 minute.
- Centrifuge at 10,000rpm for 1 minute to elute. Repeat elution with another 9. 20µl of preheated Nuclease-Free Water, for a total of 40µl.
- 10. Store sample at or below -20°C until further analysis. Total nucleic acid purified using this method can be used directly in RT-qPCR.

J	Eluate collected from the concentration step (Figure 1).
Í	1. Add Binding Buffer 1.
	2. Add Binding Buffer 2. Mix.
¥	3. Divide into two tubes of 750µl each.
T	4. Add 750µl of isopropanol to each tube. Mix.
Ļ	Add liquid to Minicolumn.
//	1. Centrifuge.
8	2. Add Column Wash 1 (CWE).
	Centrifuge.
÷	 Add Column Wash 2 (RWA). Centrifuge. Repeat for a total of two washes.
	4. Centrifuge again to remove all liquid.
Ļ	
	Place PureYield™ Minicolumn in microcentrifuge tube.
	Add Nuclease-Free Water. Centrifuge to elute total nucleic acid (TNA).

Figure 2. Schematic showing clean-up and concentration	of
TNA using a PureYield™ Minicolumn.	

Additional protocol information in Technical Manual #TM662, available online at: www.promega.com



Quick Protocol