

# TRIzol® reagents

## The benefits of organic extraction



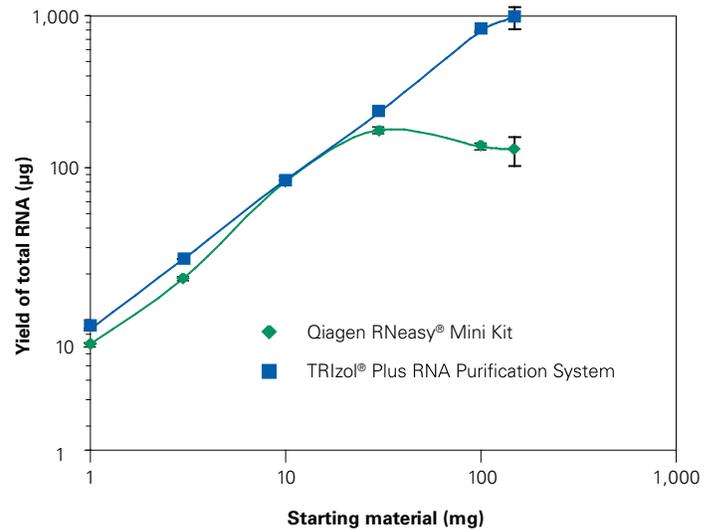
TRIzol® reagents are referenced in thousands of journal publications, reflecting the trust that researchers have placed in these products. High-quality, intact RNA can be isolated from a wide variety of biological materials, including difficult samples that are not easily lysed, tissues high in RNases (e.g., spleen and pancreas), tissues high in fat (e.g., brain and adipose), and samples high in sugars (e.g., fruit tissue).

TRIzol® reagents are ready-to-use, monophasic solutions of phenol and guanidine isothiocyanate, with protocols based upon improvements to the single-step RNA isolation method developed by Chomczynski and Sacchi<sup>1</sup>.

### Two products in one

The TRIzol® Plus RNA Purification System couples the strong lysis capabilities of TRIzol® Reagent with the ease and speed of the spin column format of the PureLink® RNA Mini Kit. This combination results in high RNA yields and is ideal for difficult samples.

TRIzol® reagents immediately and effectively inhibit RNase activity during sample homogenization, maintaining the integrity of the RNA while disrupting cells and dissolving cell components. Following lysis, the RNA is bound to the silica-based membrane in the PureLink® RNA Mini Kit Spin Cartridge, washed to remove contaminants, and then eluted.



**Comparison of RNA yields.** The yield of total RNA from increasing amounts of rat liver was determined for the Qiagen RNeasy® Mini Kit and the TRIzol® Plus RNA Purification System. The TRIzol® Plus system produced up to 1,000 µg of total RNA, nearly 10 times more than the alternative kit.

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## Ordering information

Product	Primary sample type	Quantity	Cat. No.
TRIzol® Reagent	Tissues and cells	100 mL	15596026
TRIzol® Reagent	Tissues and cells	200 mL	15596018
TRIzol® LS Reagent	Liquid samples such as serum and virus preparations	100 mL	10296010
TRIzol® LS Reagent	Liquid samples such as serum and virus preparations	200 mL	10296028
TRIzol® Max™ Bacterial RNA Isolation Kit	Bacterial samples	100 mL TRIzol® Reagent and 20 mL Max™ Bacterial Enhancement Reagent	16096020
TRIzol® Max™ Bacterial RNA Isolation Kit	Bacterial samples	200 mL TRIzol® Reagent and 2 x 20 mL Max™ Bacterial Enhancement Reagent	16096040
TRIzol® Plus RNA Purification Kit	All sample types, especially difficult samples	50 preps	12183555

For more information, go to [lifetechnologies.com/trizol](http://lifetechnologies.com/trizol)

1. Chomczynski P, Sacchi N (1987) Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. *Anal Biochem* 162:156-159.



### In the United States:

For customer service, call 1-800-766-7000

To fax an order, use 1-800-926-1166

To order online: [www.fishersci.com](http://www.fishersci.com)

### In Canada:

For customer service, call 1-800-234-7437

To fax an order, use 1-800-463-2996

To order online: [www.fishersci.ca](http://www.fishersci.ca)



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