BiOstic® Blood Total RNA Isolation Kit

Overview

Isolate RNA from up to 2 ml of whole blood or 10 million cells

Features

1. Purify RNA from up to 2 ml of whole blood or 10 millions cells
2. Fast and easy format with novel MO BIO flat bottom spin columns
3. DNase 1 (Rnase-Free) included
4. Isolate RNA from whole blood in 45 minutes

Description

The Bi*O*stic® Blood Total RNA Isolation Kit provides a way to purify RNA from up to 2 ml of whole blood or 10 millions cells using a fast and easy spin column.
This method uses a simple hypotonic red blood cell (RBC) lysis to obtain a white blood cell (WBC) pellet for extraction of RNA.

Silica Spin column products utilize the novel MO BIO flat bottom spin column design, which provides improved samples processing and yields. The bucket configuration allows for enhanced samples flow and membrane drying after wash step since the entire membrane is accessible for air flows.

The silica technology provides a robust and fast way to purify nucleic acids without the use of organic solvents or cesium chloride gradients.

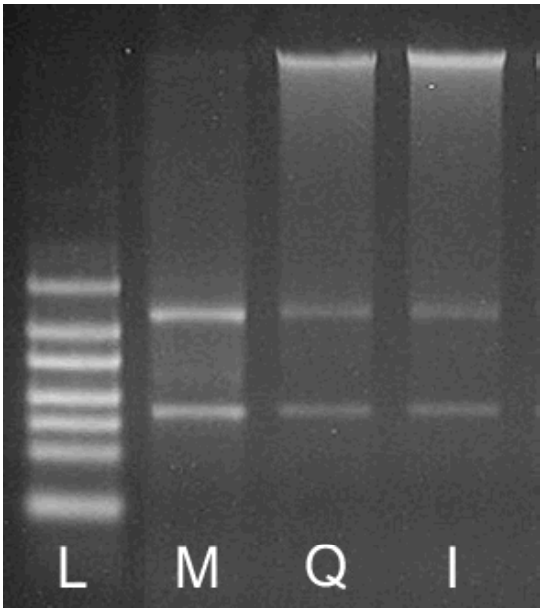

Figure 1: RNA yields were twice as high compared to Qiagen using the Bi*O*stic® Blood Total RNA Isolation Kit. Lane 1: Ladder; lane 2: MO BIO, avg. yield of 2.5 µg; lane 3: Qiagen, avg. yield 1.2 µg; lane 4: Invitrogen, avg. yield 1.6 µg

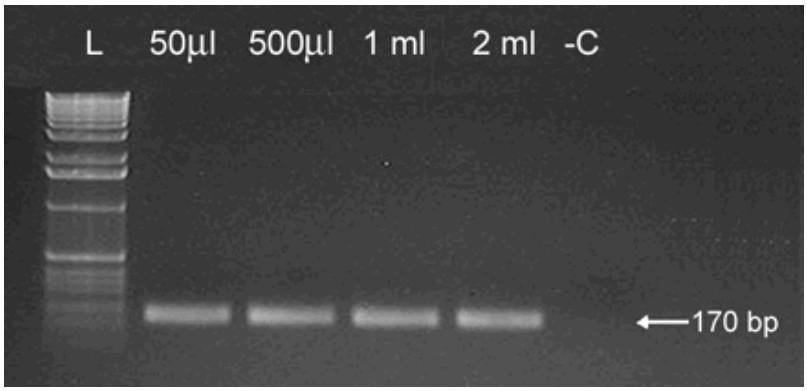

Figure 2: Successful RT-PCR with the Bi*O*stic® Blood Total RNA Isolation Kit. RNA isolated is ready to use for enzymatic applications.

Protocol

12230

Specifications

Competition Spec	MO BIO	SupplierQ	Supplier I
Starting volume of blood: up to	2 ml	1.5 ml	500 µl
Protocol speed	45 minutes	60 minutes	53 minutes
Dnase included?	YES	NO	NO
Ready to use?	YES	NO	NO
Average Yield (Fig. 1)	2.5 µg	1.2 µg	1.6 µg
Purity 260/280	2.02	1.92	1.62
Purity 260/230	1.61	1.14	0.65

Storage Conditions

Store RNase at 4°C. Store all other components at room temperature.

Kit Components

Component	12230-50	12230-20
Solution BR1	1 x 550 ml	1 x 220 ml
Solution BR2	1 x 40 ml	1 x 16 ml
Solution BR3	2 x 20 ml	1 x 16 ml
Solution BR4	2 x 23 ml	1 x 18 ml
Solution BR5	1 x 2.5 ml	1 x 1 ml
Solution BR6	2 x 28 ml	1 x 22 m1
Solution BR7	1 x 8 ml	1 x 3 ml
DNase 1	1500 units	750 units
Spin Filters	50	20
2 ml Collection Tubes	150	60
15 ml Collection Tubes	50	20