

## RNA extraction from human colon National Yang-Ming University - Taiwan

### CONTEXT

The Center is focused on high-throughput genome analysis.

The goal of this work is to compare three equipments dedicated to the homogenization of human colon tissues to extract total RNA.

### MATERIAL

- Precellys®24.
- Precellys kits: 03961-1-002 (2.8mm ceramic beads)
- Competitor M and competitor Q.
- Sample: 30 mg of human colon tissue.
- Buffer: Trizol.

### PROTOCOL

- Precellys®24: 2.8mm ceramic beads, 2 mL vials, 250 µl Trizol, 6500 rpm, 2x10s (10s break) and 6500 rpm, 1x15s (8s break).
- Competitor M: 1.4mm ceramic beads, 200 µl Trizol, 6500 rpm, 50 sec.
- Competitor Q: 5mm metal bead, 350 µl Trizol, 30 1/s, 2 min; 2x.
- Total RNA extraction: Trizol extraction method.



03712810.DU019 / July 2009

### RESULTS

The figure 1 illustrates the total RNA yield extracted from Human colon tissues with the three homogenizers tested. The table 1 shows the RNA quality parameters for RNA extracts.

Figure 1

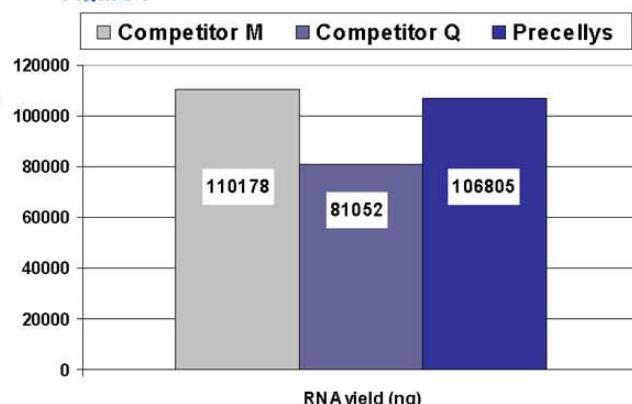


Table 1

	A260/280	A260/230	Total RNA Conc. (ng/µl)	RNA yield	RIN
Competitor M	1,99	2,14	1836,30	110178,00	7,40
Competitor Q	1,92	2,24	1350,87	81052,20	7,40
Precellys	1,99	2,20	1780,08	106804,80	7,30

### CONCLUSION

Equivalent total RNA extraction is obtained with Precellys®24 homogenizer and Competitor M and lower with Competitor Q. The RIN and the A<sub>260/280</sub> show a very good quality of RNA extracted.

The benefits of using the Precellys®24 compared with previous method are time and work saving.

For more details, please contact  
precellys@bertin.fr



テクノサウルス機器株式会社

<http://www.technosaurus.co.jp>

■ 東京

〒162-0805 東京都新宿区矢来町 113 番地 TEL(03)3235-0661(代) FAX(03)3235-0669

■ 大阪

〒532-0005 大阪市淀川区三国本町2丁目12番4号 TEL(06)6396-0501(代) FAX(06)6395-2588

■ 福岡

〒812-0054 福岡市東区馬出1丁目2番23号 TEL(092)631-1012(代) FAX(092)641-1285

\*会社名および商品名は、各会社の商標または登録商標です。

\*本カタログに記載の規格・仕様・外観は予告なく変更する場合がありますので御諒承下さい。