

## RNA OR DNA EXTRACTION

### INTRODUCTION

Measurement of gene expression within a cell culture. The extraction of mRNA from the cells grown in BIOMIMESYS® enables analysis of gene expression to determine the physiological characteristics of the cells.

### METHOD

Direct mRNA extraction is possible following the protocol provided with standard mRNA extraction kits.

### KIT TESTED AND RESULTS

For the extraction of mRNA, we tested different kits at day 30 :

Kits	Cells	Yield/plug	Ratio (OD 260/280nm)
NucleoSpin RNA XS Macherey-Nagel	HT- 29 HepG2	8 µg 600 ng	2.09-2.08
innuPrep RNA Mini Eurobio	HT-29 HepG2	8 µg 400 ng	2.09-2.13
Trizol/Chloroform/Isopropanol	HT-29	14-23 µg	1.83-1.94

Or at day 8 :

Kits	Cells	Yield/plug	Ratio (OD 260/280nm)
<i>NucleoSpin RNA XS Macherey-Nagel</i>	<i>3T3-L1</i>	<i>840 ng</i>	<i>2.14-2.18</i>
<i>RNeasy Micro Kit Qiagen</i>	<i>3T3-L1</i>	<i>940 ng</i>	<i>2.08-2.09</i>

The extraction of HT29 mRNA after different days :

Kits	Time	Yield/plug	Ratios (OD 260/280nm)
NucleoSpin RNA XS Macherey-Nagel	Day 7	1-2 µg	2.09-2.12
	Day 14	1.5-3 µg	
	Day 30	8 µg	

## Contact Information

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