



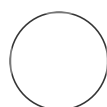
NOV 17, 2023

# Isolation of intestinal organoids from matrigel for protein or RNA extraction

In 1 collection

rachel.bates<sup>1</sup>

<sup>1</sup>UCL



rachel.bates

## ABSTRACT

Isolation of intestinal organoids from matrigel or cultrex growth domes ready for protein or RNA isolation.

## PROTOCOL MATERIALS

Cell Recovery solution Corning Catalog #354253 Step 3

Cultrex® 3-D Culture Matrix™ Reduced Growth Factor Basement Membrane Extract, PathClear® Merck MilliporeSigma (Sigma-Aldrich) Catalog #3445-001-01

Step 1

Phosphate Buffered Saline Thermo Fisher Scientific Catalog #28374 Step 2

OPEN ACCESS



**DOI:**  
[dx.doi.org/10.17504/protocols.io.36wgq37kolk5/v1](https://dx.doi.org/10.17504/protocols.io.36wgq37kolk5/v1)

**Protocol Citation:** rachel.bates 2023. Isolation of intestinal organoids from matrigel for protein or RNA extraction. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.36wgq37kolk5/v1>

**License:** This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

**Created:** Jul 30, 2023

**Last Modified:** Nov 17, 2023














**PROTOCOL integer ID:**  
85690

**Keywords:** ASAPCRN

**Funders**

**Acknowledgement:**

asap

- 1 Intestinal organoids are grown in  30  $\mu\text{L}$  1w 3d  
 Cultrex® 3-D Culture Matrix™ Reduced Growth Factor Basement Membrane Extract, PathClear® Merck  
MilliporeSigma (Sigma-Aldrich) Catalog #3445-001-01  
domes for  240:00:00
- 2 Once organoids are large enough for harvest domes are washed three times with ice cold  
 Phosphate Buffered Saline Thermo Fisher Scientific Catalog #28374 .
- 3 Add  Cell Recovery  
solution Corning Catalog #354253  1 mL per well. incubate on ice for 1h  
 01:00:00 with orbital shaking at  100 rpm, 4°C .
- 4 Harvest well contents into centrifuge tube. Centrifuge  6000 rpm, 00:01:00 . Carefully remove  
supernatant and add  1 mL of  4 °C PBS. Incubate on ice for  00:05:00 . 6m
- 5 Centrifuge  6000 rpm, 4°C, 00:01:00 . Carefully remove the supernatant and as much solidified  
matrigel as possible leaving behind organoids. Cell pellet is ready for RNA or protein extraction. 1m