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Isolation of intestinal organoids from matrigel for protein or RNA extraction

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Protocol status: Working

We use this protocol and it's working

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asap

Abstract

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

Protocol materials



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



Phosphate Buffered Saline **Thermo Fisher Scientific Catalog #28374**



Cell Recovery solution **Corning Catalog #354253**



- 1 Intestinal organoids are grown in  30 μ 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  01:00:00 with orbital shaking at  100 rpm, 4°C . 1h
- 4 Harvest well contents into centrifuge tube. Centrifuge  6000 rpm, 00:01:00 . 6m

Carefully remove supernatant and add  1 mL of  4 °C PBS. Incubate on ice for  00:05:00 .
- 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