

Spheroid Recovery from Corning® Elplasia® Plates

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Guidelines for Use

Introduction

Corning Elplasia plates are specially designed for the formation, growth, and analysis of multiple and uniform spheroids within a standard plate footprint. The array of microcavities within each well, combined with an Ultra-Low Attachment (ULA) surface, enables it to be used with a variety of cell types and in many different applications including high throughput screening (HTS), cell therapy research, and 3D tissue engineering. For some applications, such as passaging, Corning Matrigel® matrix embedding, protein analysis or histology, recovery of the fully formed spheroids is desired. Here we provide guidance on the steps and tools that can be helpful for this process.

Materials

- ▶ Corning Elplasia multiwell plate containing spheroids of interest
- ▶ Stripette® serological pipets or wide-bore tips for transfer
 - 5 mL (Corning Cat. No. 4487)
 - 10 mL (Corning Cat. No. 4488)
 - Axygen® 200 µL universal fit filter tips, wide-bore (Corning Cat. No. TF-205-WB-R-S)
 - Axygen 1000 µL universal fit filter tips, wide-bore (Corning Cat. No. TF-1005-WB-R-S)
- ▶ Cell culture medium
- ▶ Phosphate Buffered Saline (PBS)
- ▶ Collection plate or container

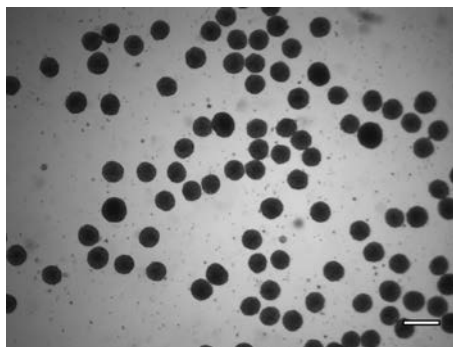
Procedure

1. Resuspend spheroids within well by gently pipetting several times up and down using a Stripette or wide-bore tips to dislodge the spheroids from within the microcavity well.
NOTE: Wide-bore tips have a larger opening than standard tips and are less likely to damage larger spheroids during pipetting.
2. Transfer resuspended spheroids to a collection plate or container.
3. Repeat the process by adding enough PBS or cell culture medium to cover the microcavity wells.
4. Pipette each well several times using a Stripette or wide-bore tips to resuspend any remaining spheroids, and then add to a collection plate or container.
5. Once complete, the Corning Elplasia microcavities can be observed under the microscope to ensure complete collection of spheroids. If spheroids remain, another wash step can be performed until all spheroids have been transferred.

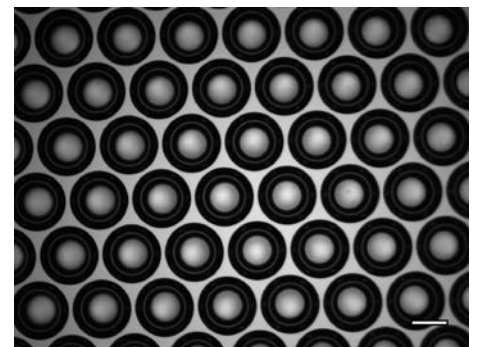
Corning Elplasia Microcavities



Collected Spheroids



Empty Microcavities



HT-29 spheroids generated in Corning Elplasia 6-well round bottom plate. Images taken with 2X objective. Scale bar is 400 µm.

Empty Corning Elplasia microcavities after spheroid collection. Scale bar is 400 µm.

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CORNING

Corning Incorporated
Life Sciences

www.corning.com/lifesciences

NORTH AMERICA

t 800.492.1110
t 978.442.2200

ASIA/PACIFIC

Australia/New Zealand

t 61 427286832

Chinese Mainland

t 86 21 3338 4338

India

t 91 124 4604000

Japan

t 81 3-3586 1996

Korea

t 82 2-796-9500

Singapore

t 65 6572-9740

Taiwan

t 886 2-2716-0338

EUROPE

CEurope@corning.com

France

t 0800 916 882

Germany

t 0800 101 1153

The Netherlands

t 020 655 79 28

United Kingdom

t 0800 376 8660

All Other European Countries

t +31 (0) 206 59 60 51

LATIN AMERICA

grupoLA@corning.com

Brazil

t 55 (11) 3089-7400

Mexico

t (52-81) 8158-8400