Quick Start Guide

User Guide

About Happy Cell® ASM

A 1X concentration of Happy Cell® ASM and a cell seeding density of 0.5 – 1 x 106 cells/ml is suitable for most cell types and applications.

Catalogue Number: VHCME; VHCDM; VHCRP

Happy Cell® ASM works best:

- With non-tissue treated (low attachment) culture ware
- In microplate formats – 12, 24, 48, 96, 384 & 1536 well microplates
- In tubes ranging from 2ml – 50ml

Storage and Expiry

Stable until expiry date on bottle if stored at 2-8°C. DO NOT FREEZE.

Ship at ambient temperature.

Steps to make up Happy Cell® ASM

1. Take 25ml bottle of Happy Cell® ASM and shake well
2. Prepare 75ml of Culture Medium containing:
   - 1.35X concentration of the Culture Supplement you wish to use e.g. FBS, L-Glutamine at desired concentration.
   - 1X concentration of Penicillin/Streptomycin – If applicable.
3. Add the 25ml of Happy Cell®ASM to the 75ml of Culture Medium and mix gently.
4. **If unsure, volumes also be calculated using the "Happy Cell® ASM Quick Calculator".**

Version – V2.1 – 10 May 2021

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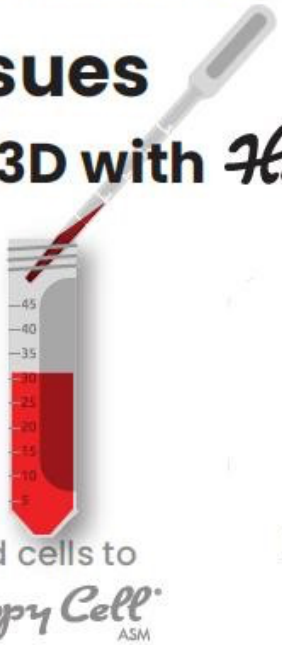
Happy Cell® ASM

Culturing Spheroids and Microtissues

as simple as 1 to 3D with Happy Cell® ASM

Grow Cells

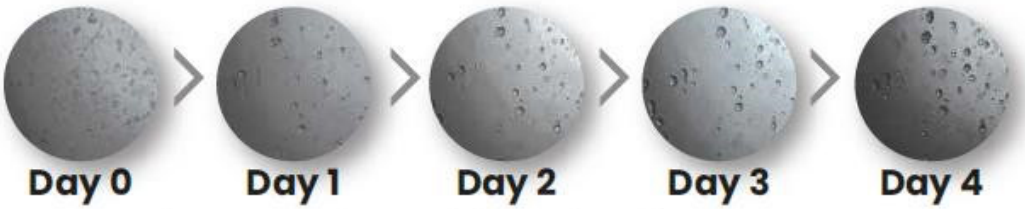


Add cells to Happy Cell® ASM

Incubate & Analyse

Features

- Allows easy labelling, washing and dosing of cells
- Designed to be used with Automated Microscopes and Plate Readers.
- A viable alternative to Matrix Gels



Day 0 Day 1 Day 2 Day 3 Day 4

Time course of spheroid formation with prostate cells incubated in Happy Cell® ASM

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Maintaining your Cell Cultures

- Top up with fresh Happy Cell® ASM **or** remove ~20% of medium from the top of the vessel and replace with fresh Happy Cell® ASM
- Feed the culture when the medium changes from red to light pink/yellow

Monitoring your Spheroid Growth

- In multi-well plates use a tissue culture microscope to observe the cultures
- If using tubes remove ~100µ into a multi-well plate and image
- It is critical that cultures are maintained regularly by media supplementation. If phenol red indicator in media starts to change colour to yellow add fresh media as soon as possible.
- Ensure that serum and supplement levels are maintained.

Harvesting your Spheroids

- Add inactivation Solution at a final concentration of 100µg/mL for one hour at 37°C
- If required centrifuge culture from 20-150g depending on application. **For isolation of structurally intact spheroids/micro tissues for further culture or imaging we recommend applying lower g forces (this step may require a little trial and error).**

Safety warnings and precautions

For research use only.

Not recommended or intended for diagnosis of disease in humans or animals.

Do not use internally or externally in humans or animals.

All chemicals should be considered as potentially hazardous. We therefore recommend this product be handled only by persons trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice. Wear suitable protective clothing such as laboratory overalls, safety glasses and gloves. Care should be taken to avoid contact with skin or eyes. In the case of contact with skin or eyes wash immediately with water. See material safety data sheet(s) and/or safety statement(s) for specific advice.

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