

# SPHEROID DISPERSION SOLUTION (4X)

Cat. # SD4X

## Precautions for use

Thank you for purchasing a Spheroid Dispersion Solution (4X). It is recommended that users read all instructions before use.

## Introduction

This solution is optimized to disperse spheroids formed on the NanoCulture<sup>®</sup> Plate (NCP). Cells dissociated with Spheroid Dispersion Solution (1X) can be counted by hemocytometer and subjected to subculture on the NCP.

## Products and storage

Cat. #	Components	Quantity	Storage
SD4X	Spheroid Dispersion Solution (4X)	15 ml	-20°C

Please refer to expiration date on the label. This product should be stored at 4-8°C after thawing and use within 6 months from the shipment to avoid deterioration of the quality and for the best experimental result.

## Preparation of SD1X

SD4X is the 4 times concentrated solution. Before use, 3 volume of PBS (-) should be added to prepare 1X solution. **NOTE:** SD4X should be diluted and keep on ice immediately prior to use.

## Protocol for cell counting

Spheroids can be dispersed with the Spheroid Dispersion Solution using the protocol described below. Dispersed cells can be counted by hemocytometer and subjected to subculture on the NCP.

## Protocol

1. Spheroid Dispersion Solution (4X) (SD4X) should be diluted into 1X with PBS (-). Keep it on ice until use. **NOTE:** If the spheroid is formed tightly, use 2X diluted solution or 4X (depends on the cell type).
2. Transfer spheroids with the culture medium to the centrifuge tube by pipetting. **NOTE:** We do not recommend washing spheroid in the NCP because spheroid is easy to be detached from NCP during pipetting.

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3. Centrifuge the tube at 300 x g for 5 min and remove supernatant.
4. Wash the pellet of spheroids with PBS (-) twice.
5. SD1X is added to the pellet of spheroids (50-100  $\mu$ l is recommended per well  $\approx$  0.5~1 x 10<sup>5</sup> cell).
6. Tap the tube to suspend the spheroid and incubate at 37°C for 10-20 min.
7. Pipette gently to disperse spheroid (10-20 times' up and down).
8. Add culture medium containing FBS to cell suspension and mix well.
9. Count cell number with hemocytometer. **NOTE:** These cells can be use to subculture if you treated cells under sterile condition.

**Product warranty**

All materials supplied in product pass an inspection at SCIVAX Corporation prior to shipment. However, if product you received is defective, please contact us.

**Related products**

Product		Cat. #
NanoCulture® Plate	MS pattern	NCP-LS96-2, NCP-LS96-10
		NCP-LS24-2, NCP-LS24-10
		NCP-HS96-2, NCP-HS96-10
		NCP-HS24-2, NCP-HS24-10
	MH pattern	NCP-LH96-2, NCP-LH96-10
		NCP-LH24-2, NCP-LH24-10
		NCP-HH96-2, NCP-HH96-10
		NCP-HH24-2, NCP-HH24-10
	MS/MH pattern	NCP-LSH96-2
		NCP-LSH24-2
	NanoCulture® Medium	M type
NCM-M100		
NCM-M200		
R type		NCM-R50
		NCM-R100
		NCM-R200
Spheroid Dispersion Solution(4X)		SD4X
Spheroid Lysis Buffer		SLB

Contact information

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