



May 13, 2023

Version 2

NCEM Drop - Cell Pellet Dounce Homogenisation (TM-014) V.2

DOI

<https://dx.doi.org/10.17504/protocols.io.bp2l69j4dlqe/v2>

sandra.crameri¹

¹CSIRO ACDP



sandra.crameri

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.bp2l69j4dlqe/v2>

Protocol Citation: sandra.crameri 2023. NCEM Drop - Cell Pellet Dounce Homogenisation (TM-014). **protocols.io** <https://dx.doi.org/10.17504/protocols.io.bp2l69j4dlqe/v2> Version created by [sandra.crameri](#)

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: May 13, 2023



Last Modified: May 13, 2023

Protocol Integer ID: 81825

Keywords: cell pellet dounce homogenisation, ncem drop, ncem

Abstract

cell pellet dounce homogenisation

Protocol materials



nano-W Catalog ##2018-5ML



HEADER

1 SAN:

SPEC No:

OPERATOR:

Dounce Homogenisation

2 1. Remove cells from the flasks by scraping with a disposable plastic scraper and pour into a  10 mL centrifuge tube.

3 Pellet the cells in a bench top centrifuge at  2000 rpm  00:02:00 , remove supernatant.

2m

4 Resuspend the cells in equal volume TC water and transfer to glass homogeniser tube.

5 Insert teflon plunger into cordless drill, set drill on max speed.

6 Homogenise(20 strokes) inside Class II BSC cabinet.

7 Clarify resultant solution at  13000 rpm in Eppendorf centrifuge for  00:01:00

1m



- 8 Stand for  00:05:00 to permit viruses to diffuse back into solution, from the debris, and provide an interface for the sampling of membrane associated viruses. Use supernatant for sample below.

5m

Conventional

11m

- 9 Adsorb  10 μL sample to grid  00:10:00 , inspect to ensure sample does not dry out.

10m

- 10 Drain excess sample from grid using filter paper, leave wet.

- 11 Stain  nano-W **Catalog ##2018-5ML**  00:01:00

1m

- 12 Drain & dry using filter paper