

3D CELL EXPLORER - GENERAL SAMPLE PREPARATION GUIDELINES

A. What KIND OF SAMPLE could I observe in 3D?

- Any adherent cells in culture (mammalian, bacteria, yeasts, fungi etc.);
- Deparaffinized histological sections, in aqueous mounting medium, with thickness up to 20 microns;
- Cells embedded in hydrogel matrix (maximum thickness around 50 microns).

B. How to PREPARE MY SAMPLE...

All the required information is available on Supporting Material – Nanolive webpage:

- [Sample preparation tutorial video](#) (five minutes only)
- [Sample preparation manual](#)

C. What LABWARE should I use?

Only labware categories in the following [labware list](#) are guaranteed as compatible.

Q&A I would like to use similar labware of another brand, is it possible?
Yes, thin glass bottom labware with compatible geometry can be used. In case of different plastic bottom labware please check the compatibility contacting our technical support.

Can I use other multi well plates?
No, due to the 45-degree angle bent light and the rotating arm, common multi-well plates are generally not compatible with the instrument.

D. What is the most appropriate CULTURE MEDIUM?

You can use any water based culture medium (e.g. DMEM, RPMI, LB etc.).

Q&A Could I use a culture media that contains Phenol Red?
Sure, the instrument guarantees high quality acquisitions even with phenol red.

What about mounting media for slides?
To guarantee a good quality acquisition the mounting medium solution must be transparent and with a refractive index value between 1.33 - 1.44. Check the list of suggested mounting media in section 3.3.2. of the Sample preparation manual.

E. Are MY FLUOROPHORES compatible?

You can check the fluorophores compatibility [on this page](#) clicking the tab “Fluorophore”.

If you have any question, please contact our technical service (luca@nanolive.ch).