

Micro-Environmental System Profile Questions

This list of questions is fundamental to identifying the appropriate components of a micro-environmental system. Completion of this list prior to contacting Bioptechs will optimize the exchange of technical information. Please email this form once completed to: sales@bioptechs.com

Name: _____ Institution: _____ Phone: _____
 Address: _____ City: _____ State: _____ Zipcode: _____
 Country: _____ Email: _____ Date: _____

1. What is the brand and model of microscope? Brand: _____ Model: _____
2. What type of Microscope? Upright Inverted Stereo
3. What is the brand of stage? ASI Carl Zeiss Delta Vision Leica Ludl Mad City Labs Marzhauser
 Nikon Olympus Prior PI EVOS Other
4. What is the model of stage? _____ What type of stage? Single Plate Triple plate Unsure
5. What mode or combinations of modes of microscopy will be used?
 Brightfield Darkfield Phase DIC TIRF Polarization Fluorescence
 Other _____
6. What objective magnifications are you using?
 High N.A Objectives Dipping Objective Low N.A. Objective Magnifications? _____
7. What is the working distance of the condenser?
8. What is the time that cells need to be maintained on the microscope (minutes, days, or weeks)?
 What is the exposure or acquisition of time for each image (milliseconds, or seconds)?
 What is the time interval between images (seconds, minutes, or days)?
9. How will the correlation of optical contrast images to other modes such as fluorescence be recorded?
 No contrast images First image only Contrast image with every fluorescence image
10. What is the specimen type?
 Adherent monolayer Cell Suspension Natural tissue Artificial membrane Molecular Imaging
11. Describe the experiment as it relates to the microscope (specimen, object of experiment and imaging protocol, we want to understand the basics, we are not looking for intellectual information)
12. What temperature do the specimens need to be maintained? °C Ramping or Transitions? Yes No
13. What is the appropriate chamber type? Open Closed Unsure
14. Will micromanipulators be used and when? None Before imaging During imaging Before and During
15. Does the specimen need perfusion of media? Yes No If yes, include flow rates or volume exchange rates
 Intermittent (manual) Automated Continuous Single or multiple perfusate sources
16. Will CO2 dependent media be used or other gas regulation be necessary? No CO2 CO2 Gas Reg,
 Please explain: _____