

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 Bioprotechs will optimize the exchange of technical information. Please copy and fax this report to Bioprotechs prior to contacting us by phone. Fax: 724-282-0745

Name: _____ Institution: _____ Phone: _____

Fax: _____ Email: _____ Date: _____

1. What is the brand & model of your microscope? Brand: _____ Model: _____

2. What type of microscope? Upright Inverted Stereo

3. What is the brand of the stage?
ASI, Carl Zeiss, Delta Vision, Leica, Ludl, Mad City Labs, Marzhouser, Nikon, Olympus, Prior, PI

4. What type of stage for inverted microscopes? Single plate Triple plate

5. What mode or combinations of modes of microscopy will be used?
Brightfield Darkfield Phase
DIC Polarization Modulation Contrast
Reflection Interference Fluorescence Multi-Photon
TIRF VAREL Confocal

6. What objective magnifications are you using? (include all that apply)
4X, 5X, 10X, 20X, 40X, 63X dry 20X, 40 X, 63X, and 100X fluid coupled

7. What is the condenser N.A.? (relates to working distance) Common values: 0.3-0.6, 0.7-0.9, 1.0 - 1.4

8. What is the duration of time & interval between images? Time: _____ Interval: _____

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. What type of experiment or object of experiment? (brief explanation)

12. What temperature do the specimens need to be maintained? _____°C

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 and what is the perfusion profile?
Intermittent (manual) Automated Continuous Single or multiple perfusate sources

Explain: _____

16. Will CO₂ dependent media be used or other gas regulation be necessary? No CO₂. CO₂, Gas reg, _____