Date:

Questionnaire for Virus Production in CelCradle® or TideXcell® System

Please answer the following questions as completely as possible. The information here will be kept with utmost confidentiality and will only be used to generate a customized protocol for your facility.

I. Customer Information

**Fields required to be filled out*

FIRST NAME*

LAST NAME*

DESIGNATION*

ORGANIZATION*

DEPARTMENT*

ADDRESS*

PHONE NUMBER*

EMAIL ADDRESS*

FAX NUMBER

II. Questionnaire

**Fields required to be filled out*

1. What is the Cell Line?	
2. What is the Virus Strain?	
3. Please describe the Virus Strain (ds,ssDNA, ds,+/- ssRNA, enveloped, non-enveloped, temperature sensitivity,...etc.)	
4. What is the previous culture system? At what scale?	
5. What is the culture medium for cell growth?	

II. Questionnaire

**Fields required to be filled out*

6. What type and quantity of serum is used in cell growth?	
7. What is the culture medium during post-Infection?	
8.What type and quantity of serum is used during post-infection?	
9. Is serum-free culture medium preferable?	☐ Yes ☐ No
10. What's the split ratio (dilution ratio) in roller bottle or T-flask for passage? Please specify surface area.	
11. How long will it take for cell culture before infection in roller bottle or T-flask? Please specify surface area.	
12. When is the best time for Infection?	☐ Right after seeding ☐ Plateau phase ☐ Exponential phase
13. What is the MOI (multiplicity of Infection)?	
14. What is the temperature during cell growth?	
15. What is the temperature during post-infection?	
16. Is the Virus stable during post-Infection?	

II. Questionnaire

**Fields required to be filled out*

17. What is the cell density in roller bottle (or other systems) before infection?	
18. What is the recommended media volume for cell culture in roller bottles or other systems?	
19. What is the recommended media volume for virus production in roller bottles or other systems?	
20. What is the virus titer (dose/ml) in roller bottle (or other system)?	
21. Can you provide general virus production profile in existing system?	PI Day 0: / Day 4: / Day 1: / Day 5: / Day 2: / Day 6: / Day 3: / Others:
22. When is the best time to harvest the virus (or other systems)?	☐ days after virus infection
23. After infection, will Cytopathogenic effect (CPE) form, and if so, when can it be expected to occur?	
24. What kind of CPE is formed (e.g. syncytium, destruction,…etc)	
25. Are the viruses secreted or non-secreted?	
26. How many harvests could be done during post-infection period?	☐ Single harvest ☐ Multi-harvest for ☐ days ☐ Continuous harvest for ☐ days
27. After virus infection, do cells continue to propagate?	☐ Yes ☐ No
If cells continue to propagate after virus infection, what is the fold increase in cell density during the post-infection period?	

II. Questionnaire

**Fields required to be filled out*

28. If cell harvest is required, is the use of trypsin or other enzymes allowed for the process?

- ☐ Yes, with _____ (enzyme)
- ☐ No

29. After cell harvest, is any post process required for cell isolation?

- ☐ Yes, with _____ (centrifugation,…etc.)
- ☐ No

30. What is the total volume of the cell harvest?

Media Harvest from one (1) batch: _____

31. What are the expected outcomes of using the CelCradle or TideXcell system?

- ☐ High Cell Density
- ☐ Both
- ☐ High Virus Titer

32. If the TideXcell system is selected, what is the expected production scale in terms of culture media working volume?

- ☐ 50 L
- ☐ 500 L
- ☐ 100 L

33. Is the vaccine for Human or Veterinary purpose?

- ☐ Human
- ☐ Veterinary

34. Is downstream processing required?

- ☐ Yes
- ☐ No

35. Is Single-Use required or preferred?

- ☐ Prefer re-use system
- ☐ Doesn't matter
- ☐ Prefer single-use system

36. Is there a scale-up plan for this project?

- ☐ Yes
- ☐ No

37. What's the expected scale (culture media working volume)?

- ☐ 50 L
- ☐ 500 L
- ☐ 100 L
- ☐ >500 L

38. How many doses will be manufactured for this project annually?

_____

We will provide our suggested protocol or relative systems for your application after reviewing the questionnaire. Thank you!

Important: *Save the completed PDF form (use menu File - Save).*