

Protein Production Questionnaire

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.

ustomer Information			
CONTACT PERSON	COMPAN	Y NAME	
DESIGNATION	CONTAC	r number	
DEPARTMENT	EMAIL AD	RESS	
. General Details			
1. Target Product	Secreted Protein Non-secreted Protein	Monoclonal Antibody	
2. Cell Type	Adherent cell Suspension cell	Microbial Stem Cell	
Experiment Details a. Cell Culture			
1. Cell Line		oridoma for IVD (<i>In vitro</i> Diagnostics) oridoma for Therapeutics	
Any special features or peculiarities of the cell			

3. Intended Use	Human Use (Production) Animal Use (Production) Human Use (Research) Animal Use (Research)
4. Current Culture System	T-flask: cm² x Pcs Petri Dish: mm x Pcs Roller Bottle: cm² x Btls Spinner flask: mL x Btls Carriers: Cell Factory / Cell Stack (Multi-layer): cm² x Pcs (total surface area) Stirred-tank Bioreactor: mL x Vessel Carriers: Others
5. Media Volume Capacity	Working Volume Capacity: mL / Pc (or /Btl) Total Volume Capacity: mL / Batch
6. If carriers are used, please specify type and amount of carrier.	Microbeads, Specify: Fibrous matrices, Specify: Others, Specify: Amount of carriers: grams
7. Medium exchange frequency for current system - During Cell Culture	24 hours (1 day) 48 hours (2 days) 72 hours (3 days) Media volume per change: mL
Medium exchange frequency for current system Post Infection	24 hours (1 day) Other hours (2 days) 72 hours (3 days) Media volume per change: mL

9. Culture condition during cell culture	Media Serum Temperature CO ₂ concentration of incubator
10. Other additives (eg., sodium bicarbonate, Hepes buffer etc)	

II. Experiment Details	
a. Cell Culture	
11. Glucose Concentration in initial culture medium	g/L
12. Cell Harvesting (Cell dissociation) required	☐ Yes ☐ No
13. Cell Harvest (Cell Dissociation) method if have	 Trypsin Enzymatic Dissociation Reagents; Specify: Non-Enzymatic Dissociation Reagents; Specify: Others
14. Cell Quantification	Manual counting Nuclei counting Auto-counter Others
15. Access to a bio-analyzer for measuring glucose, lactate, glutamine, etc.	☐ Yes ☐ No
16. System preference	Prefer Single-Use No Preference Prefer Multiple-Use

17. Current System Annual dose (product quantity)	
18. Current System average total cell density (per single system eg., per 1 roller bottle)	Seeding Cell Density: Harvesting End Cell Density:
19. Do you have scale up plan?	Yes No
20. Expected Scale when scaled up (Cell Density, Doses etc.)	
b. Protein Production	
21. Protein extraction method	Cell Harvest Freeze/Thaw Medium Harvest Lysis Buffer Others:
22. Harvesting process for medium harvest extraction method	Single harvest Multiple harvest; Interval time hours for days Others
c. CelCradle™ System	
c. CelCradle™ System 23. Seeding 1 – 3 x 10 ⁸ cells be difficult?	Yes If yes, how many cells do you plan to seed?

25. Can you adjust the CO ₂ concentration of incubator?	☐ Yes ☐ No
26. What are the challenges / limitations you experience with your current system?	
27. What is your expectation using our system?	
28. Is there any changes required from your existing process protocol?	☐ Yes ☐ No
29. With Tide-motion bioreactor, is it okay to change the process protocol?	☐ Yes ☐ No

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