

# Stem Cell Culture Questionnaire

Please answer the following questions as completely as possible.

## I. Customer Information

CONTACT PERSON

COMPANY NAME

DESIGNATION

CONTACT NUMBER

DEPARTMENT

EMAIL ADDRESS

## II. Experiment Details

### a. General Details

#### 1. Target

- Autologous Cell Therapy
- Allogeneic Cell Therapy
- Subsidiary Products; Specify:
- Research
- Others

#### 2. Cell Source

- Bone Marrow-derived
- Adipose-derived
- Umbilical Cord-derived
- Embryo
- Placenta
- iPSC
- Amniotic fluid
- Others

## II. Experiment Details

### b. Current Cell Culture

1. Cell Line description  
(Any special features  
regarding the cell line  
or culture methods?)

2. Intended Use

- Human Use (Production)       Human Use (Research)  
 Animal Use (Production)       Animal Use (Research)  
 Others

3. Current Culture  
System (Device used  
per production batch)

- T-flask:  cm<sup>2</sup> x  Pcs  
 Petri Dish:  mm x  Pcs  
 Roller Bottle:  cm<sup>2</sup> x  Btls  
 Spinner flask:  mL x  Btls  
Carriers:   
 Cell Factory / Cell Stack (Multi-layer):  cm<sup>2</sup> x  Pcs  
*(total surface area)*  
 Stirred-tank Bioreactor:  mL x  Vessel  
Carriers:   
 Others

4. Average Cell Densities  
from current system  
(per culture using a  
single system e.g. per  
1 roller bottle)

- Seeding Cell Density       Harvesting End Cell Density:  
 cells/cm<sup>2</sup> or       cells/cm<sup>2</sup> or  
 cells/mL       cells/mL

Average culture duration:  days

5. If carriers are used, please specify type and amount of carrier.

- Microbeads, Specify:
- Fibrous matrices, Specify:
- Others, Specify:
- Amount of carriers:

6. Additional coating reagent for current system?

- None  Gelatin
- Fibronectin  Collagen
- Others

7. Media Volume Capacity

- Working Volume Capacity;  mL / Pc (or /Btl)
- Total Media Volume (start to end of culture)  
 mL / Pc (or /Btl)

8. Medium exchange frequency for current system

- 24 hours (1 day)  Other  hours (  days)
- 48 hours (2 days)
- 72 hours (3 days) **Media volume per change:**  mL

9. Culture condition during cell culture

- Base Media
- Serum (type and %)
- Temperature
- CO<sub>2</sub> concentration of incubator

10. Oxygen Control

- Normoxia:  % O<sub>2</sub>
- Hypoxia:  % O<sub>2</sub>
- No Specific control
- Others:

<p><b>11. Concentration of additives</b></p>	<p><input type="checkbox"/> Sodium Bicarbonate: <input type="text"/></p> <p><input type="checkbox"/> HEPES Buffer: <input type="text"/></p> <p><input type="checkbox"/> Others <input type="text"/></p>
<p><b>12. Glucose Concentration in initial culture medium</b></p>	<p><input type="text"/> g/L</p>
<p><b>13. Cell Harvesting (Cell Dissociation) required</b></p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p><b>14. Cell Harvest (Cell Dissociation) enzyme used</b></p>	<p><input type="checkbox"/> Trypsin <span style="margin-left: 150px;"><input type="checkbox"/> Accutase</span></p> <p><input type="checkbox"/> TrypLE Express <span style="margin-left: 100px;"><input type="checkbox"/> Collagenase: <input type="text"/></span></p> <p><input type="checkbox"/> TrypLE Select <span style="margin-left: 100px;"><input type="checkbox"/> Others <input type="text"/></span></p> <p><input type="checkbox"/> Accumax</p>
<p><b>15. Access to a bio-analyzer for measuring glucose, lactate, glutamine, etc.</b></p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>

**II. Experiment Details**

**c. Process Plan**

<p><b>1. Scale up plan</b></p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p><b>2. Scale-up plan in terms of number of cells</b></p>	<p><input type="checkbox"/> <math>10^9</math> <span style="margin-left: 100px;"><input type="checkbox"/> <math>10^{11}</math></span> <span style="margin-left: 100px;"><input type="checkbox"/> <math>&gt;10^{13}</math></span></p> <p><input type="checkbox"/> <math>10^{10}</math> <span style="margin-left: 100px;"><input type="checkbox"/> <math>10^{12}</math></span></p>

<p><b>3. System preference</b></p>	<p> <input type="checkbox"/> Single-Use Preference      <input type="checkbox"/> Hybrid (both single- and multiple- use components in 1 culture system)  <input type="checkbox"/> Multiple-Use Preference  <input type="checkbox"/> No Preference </p>
<p><b>4. Cell culture mode</b></p>	<p> <input type="checkbox"/> Batch      <input type="checkbox"/> Recirculation  <input type="checkbox"/> Fed-batch      <input type="checkbox"/> No Preference  <input type="checkbox"/> Others <input type="text"/> </p>
<p><b>5. Cell Quantification</b></p>	<p> <input type="checkbox"/> Manual Counting      <input type="checkbox"/> Nuclei Counting  <input type="checkbox"/> Auto-counter      <input type="checkbox"/> Others <input type="text"/> </p>
<p><b>6. Do you prefer aseptic cell culture process? (System inside isolator)</b></p>	<p> <input type="checkbox"/> Yes  <input type="checkbox"/> No </p>

## Adherent Cells Questionnaire

### II. Experiment Details

**d. CelCradle™ System**

<p><b>1. Would seeding of <math>2 \times 10^7</math> cells be difficult?</b></p>	<p> <input type="checkbox"/> Yes  <input type="checkbox"/> No </p>
<p><b>2.a Will the CO<sub>2</sub> incubator be exclusively used for the CelCradle™ system?</b></p>	<p> <input type="checkbox"/> Yes  <input type="checkbox"/> No </p>
<p><b>2.b Is the CO<sub>2</sub> concentration adjustable?</b></p>	<p> <input type="checkbox"/> Yes  <input type="checkbox"/> No </p>

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