

User Manual

SuperTry™ Animal Protein Free Dissociation Reagent

Cat. No. APFD-10001

PRODUCT DESCRIPTION:

Cyagen SCTS (Stem Cell Therapy System)[™] SuperTry[™] Animal Protein Free Dissociation Reagent is an animal component free enzyme solution to dissociate cells both in serum-free and serum containing systems, to be used as a substitute for trypsin.

It is provided as a 1× stock solution (pH7.0-7.2), formulated in PBS with 1mM EDTA.

The product is intended for laboratory research use only. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

FEATURES:

- No animal-derived components to reduce the chance of contamination
- Comparable performance to Trypsin
- Directly add into cell culture system without need to wash cells after abandoning spent media before digestion
- Inhibitors are not needed to end digestion
- Batch-to-batch consistency

INSTRUCTIONS:

1. Pre-warm SuperTry[™] Animal Protein Free Dissociation Reagent to 37°C before use.
2. Aspirate spent medium from the monolayer of cells.
3. Add SuperTry[™] (2mL for T75 flask, 1mL for T25 flask). Gently rock the flask back and forth to ensure that the entire monolayer is covered with SuperTry[™].
4. Allow the trypsinization to continue until the majority of the cells (approximately 80%) are rounded up (observe at 5 minute intervals).
5. At this point, gently tap the side of the flask to release the majority of cells from the culture surface.



Note: Avoid leaving cells exposed to the SuperTry[™] longer than necessary. Care should also be taken that the cells not be forced to detach prematurely, as this may result in clumping.

6. After the cells are visibly detached, transfer the dissociated cells into a 15mL conical tube and add cell growth medium (pre-warmed to 37°C) (6mL for T75 flask, 3mL for

T25 flask).

7. Gently pipet the medium over the cells to dislodge and re-suspend the cells. Repeat 5-6 times until all the cells are dissociated from the flask and evenly dispersed into a single cell suspension.
8. Centrifuge at 250 *g* for 5 minutes to pellet the cells.
9. Carefully aspirate as much of the supernatant as possible.
10. Add 2mL of cell growth medium to the conical tube and re-suspend the cells thoroughly but gently.
11. Plate the cells into appropriate flasks with an appropriate ratio and add sufficient medium.
12. Incubate the cells at 37°C in a 5% CO₂ humidified incubator.

STABILITY AND STORAGE:

Store at -20°C for up to one year and 2-8°C for up to one month. Avoid repeated warm-cooling and freeze-thawing for optimal performance.

QUALITY CONTROL:

Cyagen SCTS (Stem Cell Therapy System)[™] SuperTry[™] is performance tested on Mesenchymal Stem Cells.

Standard evaluation includes:

1. Sterility test (bacteria, fungi and mycoplasma)
2. pH test
3. Osmolality
4. Endotoxin

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