



## Preparation of an AAV-HT1080 Cell Liquid Nitrogen Stock

The following protocol prepares frozen stocks from 175-cm<sup>2</sup> tissue culture flasks.

**Note** Feed the cells one day prior to preparing liquid nitrogen stocks to improve viability.

1. Prewarm the complete DMEM growth medium, trypsin-EDTA solution, and freezing medium to 37°C in a water bath.
2. Collect cells from a healthy, log-phase culture. Remove the culture medium by aspiration. Wash cells with 10 ml of PBS. Trypsinize cells for 1–3 minutes in 10 ml of trypsin-EDTA solution.

**Note** Incubate the cells in the trypsin-EDTA solution for the minimum time required to release adherent cells from the flask. This process may be monitored using an inverted microscope. Excess trypsinization may damage or kill the cells.

3. Dilute the cells with 10 ml of growth medium to inactivate the trypsin. Transfer the cell suspension into a sterile 50-ml conical tube. Count the cells present in an aliquot of the resuspension using a hemocytometer.
4. Collect the cells by centrifugation at 200 × g for 10 minutes at room temperature. Remove the growth medium by aspiration.
5. Resuspend the cell suspension to 1 × 10<sup>6</sup> cells/ml in freezing medium (see *Preparation of Media and Reagents*; do not include antibiotics), then dispense 1-ml aliquots of the suspension into 2-ml cryovials.
6. Freeze the cell aliquots gradually by placing the vials in a Styrofoam<sup>®</sup> container and then placing the container in a –80°C freezer overnight.
7. Transfer the vials of frozen cells to liquid nitrogen for long-term storage.

## PREPARATION OF MEDIA AND REAGENTS

<b>Phosphate-Buffered Saline (PBS)</b> 137 mM NaCl 2.6 mM KCl 10 mM Na <sub>2</sub> HPO <sub>4</sub> 1.8 mM KH <sub>2</sub> PO <sub>4</sub> Adjust the pH to 7.4 with HCl	<b>Freezing Medium (100 ml)</b> 50 ml DMEM (containing 4.5 g/L glucose, 110 mg/L sodium pyruvate and 2 mM L-glutamine) 40 ml heat-inactivated fetal bovine serum 10 ml dimethylsulfoxide (DMSO) Filter sterilize
<b>Complete DMEM Growth Medium</b> DMEM (containing 4.5 g/L glucose, 110 mg/L sodium pyruvate, and 2 mM L-glutamine) supplemented with 10% (v/v) heat-inactivated fetal bovine serum and 2 mM of L-glutamine	<b>Trypsin-EDTA Solution</b> 0.53 mM tetrasodium ethylenediamine-tetraacetic acid (EDTA) 0.05% trypsin

## REFERENCES

1. Ausubel, F. M., Brent, R., Kingston, R. E., Moore, D. D., Seidman, J. G. *et al.* (1987). *Current Protocols in Molecular Biology*. John Wiley and Sons, New York.

## ENDNOTES

Styrofoam<sup>®</sup> is a registered trademark of Dow Chemical.

## QUALITY CONTROL TESTING

This cryovial contains at least 1.0 × 10<sup>6</sup> AAV-HT1080 cells as determined by morphology, trypan-blue dye exclusion, and viable cell count. The AAV-HT1080 cells are free of microbial contamination as determined by sterility culture testing in mTGE and YM broth, and by PCR for detection of mycoplasma.

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