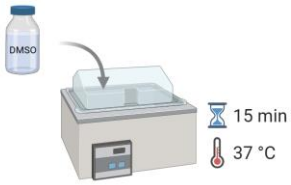
CellVantage™ AAV

Technical Instruction Sheet

This sheet outlines general procedures for dissolving, storing and using the CellVantage™ AAV enhancer. All procedures must be performed using sterile materials and under sterile conditions.

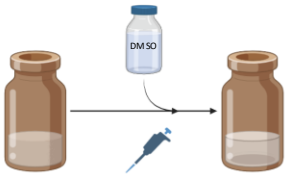
PART 1: DISSOLUTION, ALIQUOTING AND STORAGE

1



Pre-warm DMSO in a 37°C water bath for 15 minutes prior to use.

2

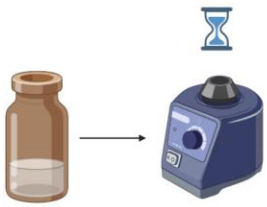


Add the 2 mL. of DMSO directly to bottle containing the powder to achieve the **Master Stock Concentration** as provided in **Table 1** below.

Table 1: Preparation Requirements

Product Name	Master Stock (mM)	Solvent	Amount to Add Per Vial (mL)
CellVantage™ AAV	10	DMSO	2

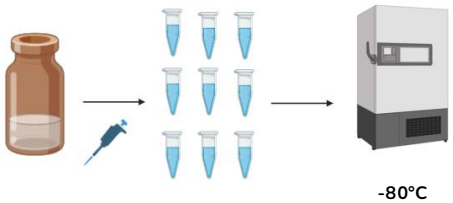
3



Vortex the solution at high speed until completely dissolved.

Sterile filtration is not recommended. When required, please use PTFE hydrophobic filters for DMSO based solutions. For alternative options, please contact our scientific team.

4



Immediately prepare **multiple single use** aliquots of the stock solution and **store at -80°C until time of use.**

Multiple freeze thaws of the product is not recommended.

Turn Page Over for Experimental Use Instructions

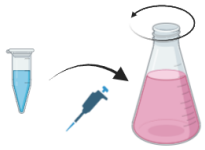
PART 2: INSTRUCTIONS FOR EXPERIMENTAL USE

1

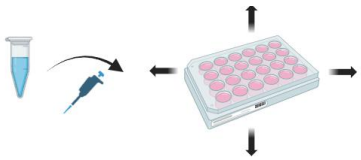
Thaw a frozen aliquot of **Master Stock solution (10mM)** at no longer than 30 minutes prior to use.

Once fully thawed, vortex at high speed for 15-30 seconds to mix well.

2



OR



Add desired amount of VSE solution to the cell culture to achieve final concentrations recommended **(Table 2).**

Gently swirl the vessel (or use a T-motion for plates) to ensure uniform distribution.

Note: Ensure that the final DMSO percentage within the cell culture will not exceed 1%. Additional dilutions may be required.

Production Optimization:

To optimize for your cell line and vector, start by treating your culture at 2, 5, 10 µM **(Table 2)** and adjust as needed based on results. Enhancement has been observed between 1-15 µM depends on the platforms.

Table 2

Final Cell Culture Concentrations		
2µM	5µM	10µM
Example: 30mL Cell Culture Volume		
Add **6µL** of **10mM** solution to cell culture	Add **15µL** of **10mM** solution to cell culture	Add **30µL** of **10mM** solution to cell culture

Timing of Addition:

For Transfection-Based AAV Production: Add to the cell culture at time of transfection.

For Stable Producer Cell Lines: Add to the cell culture at time of induction.

Please Note:

Once an aliquot has been thawed and used, discard remaining product according to disposal procedures as referenced in the SDS. **It is not recommended to use freeze-thawed aliquots.**

Our team of Scientists is eager to help!

For any questions related to product use or optimization, please contact: sciteam@viricabiotech.com

Access our Product Resources Here