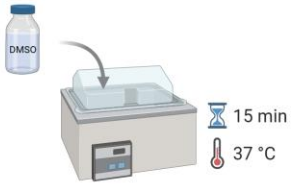
CellVantage™ AAV Starter Kit

Technical Instruction Sheet

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

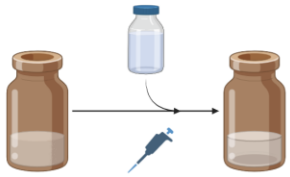
PART 1: DISSOLUTION, ALIQUOTING AND STORAGE

1



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

2

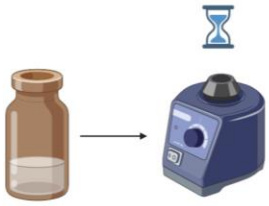


Add the pre-warm DMSO amount to the VSE powder to achieve the **Master Stock Concentration** as provided in **Table 1 below.**

Table 1: VSE Preparation Requirements

Product Name	Master Stock (mM)	Solvent	Amount to Add per Vial (mL)
VSE™-003	25	DMSO	2.4
VSE™-007	10	DMSO	2
VSE™-008	7.5	DMSO	3

3

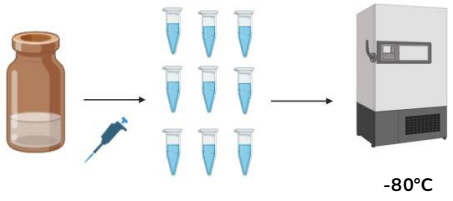


Vortex the solution at high speed until completely dissolved (time may vary between VSEs).

For VSE™-008: If undissolved after vortexing, place the solution in a 37°C water bath for 10-15 minutes, and repeat vortex step until fully 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

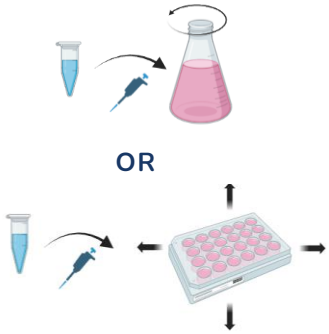
PART 2: INSTRUCTIONS FOR EXPERIMENTAL USE

1

Thaw a frozen aliquot of **Master Stock solution** no more than 30 minutes prior to use.

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

2



To optimize for your cell line and vector, start by treating your culture using the recommended concentrations **(Table 2)** and adjust as needed based on results.

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.

Table 2: Concentration Recommendations

VSE™	Final Concentrations (µM)		
VSE™-003	10	20	30
VSE™-007	2	5	10
VSE™-008	1	2	5

As an example, add the amount of VSE Master Stock solution to 30 mL of cell culture to achieve final concentrations recommended.

Table 3: VSE Treatment Volume for 30 ml of cell culture

VSE™	Treating Volume (µL)		
VSE™-003	12	24	36
VSE™-007	6	15	30
VSE™-008	4	8	20

VSE Combinations:

VSE™ compounds may be tested individually or in combination.

Combinations such as **VSE™-003 + VSE™-007 and VSE™-007 + VSE™-008** have shown activity across multiple platforms.

Because optimal dosing is platform-dependent, start with the **lowest effective concentrations in Table 2** and adjust based on results.

Timing of Addition:

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

For Stable Producer Cell Lines: Add to the cell culture at the 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