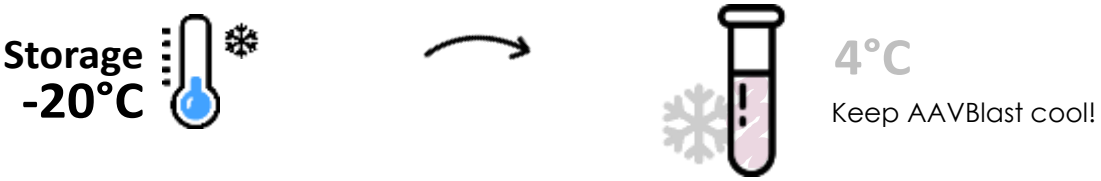
AAVBlast
Enhance AAV infection and transduction efficiency

To find the ideal conditions, we suggest using **0.5 µL**, **1 µL** and **2 µL** per well in a 24-well plate. If the AAV transduction/infection conditions are unknown, use MOI ranging from 1000 to 30.000 genome copies per cell.

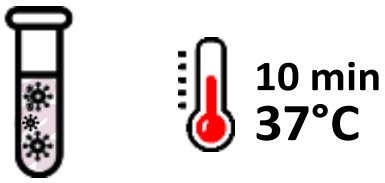
1. AAVBlast thawing: Thaw AAVBlast at 4°C and keep it in melting ice bath or cooling rack.



2. Prepare AAV / AAVBlast complexes: Add AAVBlast to viral suspension, place the complexes at 37°C.

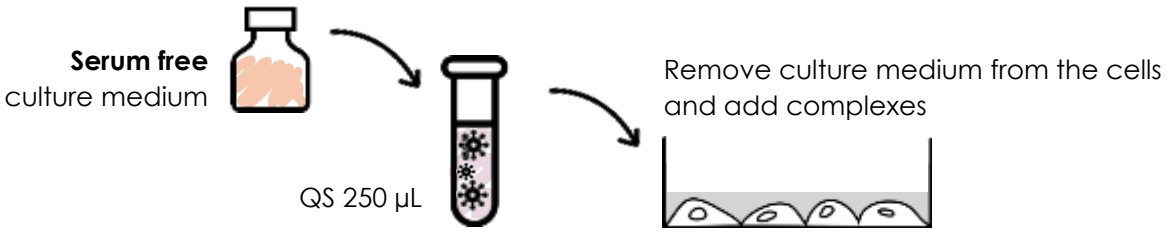


3. Incubation: Immediately incubate at 37°C for 10 min after addition of AAVBlast

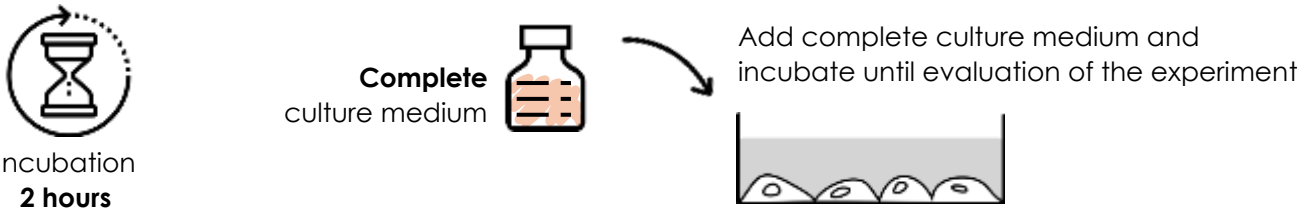


Place the complexes at
37°C for 10 min.

4. Cell transduction: Add serum free medium to AAV/AAVBlast and replace culture medium



5. Incubation : incubate for 2 hours and add complete culture medium



Contact us regarding optimization procedures or for any technical question at: **tech@ozbiosciences.com** or visit our website: **www.ozbiosciences.com**.

Rev 08/26 CS

AAVBlast
Enhance AAV infection and transduction efficiency

Before you begin

AAVBlast is ideal to enhance AAV infection and transduction in any type of cells: adherent or in suspension, primary or cell lines.

Protocol | General considerations

• Do not change your transduction conditions already settled: simply add the AAVBlast to your established protocol.
• It normally takes at least 48h to visualize transduction that can be followed up to 6 days.
• Start with MOI ranging from 1000 genome copies (gc) to 30.000 gc per cell using control AAV if conditions are unknown.

⚠ During the experiment, keep AAVBlast at 4°C in a melting ice bath or cooling rack to prevent gelation and ensure correct pipetting.
⚠ Use medium without any supplement for the preparation of the complexes.

1. Cells preparation:
One day before transfection prepare the cells according to table 1 (recommended 80% confluence).

Cell culture format	Adherent cell nb. / well
96-well	8-15 x 1.10^3
24-well	4-8 x 1.10^4
6-well	2-4 x 1.10^5

Table 1: Cell number suggested per well for AAV transduction.

2. Preparation of AAV/AAVBlast complexes:

a. AAVBlast: Thaw AAVBlast at **4°C** and keep it cold in a melting ice bath or cooling rack.

b. AAV: Prepare AAV working solution in **10** to **15 µL** culture medium without supplement.

NOTE: to ensure the best efficiency of complexation, use the lowest possible volume (max 1/10^{th} of the total culture medium).

c. Add **0.5** to **2 µL** AAVBlast to viral suspension and immediately incubate at **37°C** for **10 min**.

3. Transduction:
a. Add culture medium w/o supplement to AAV/AAVBlast complexes – **QS 250 µL**.

b. Remove culture medium from cells and gently add AAV/AAVBlast complexes.

c. Incubate **2 h** under standard culture conditions

OPTIONAL: a medium wash can be performed after the 2 h incubation procedure: remove transduction medium and add 500 µL complete culture medium.

d. Add **250 µL** complete culture medium

NOTE: in case of sensitive cells, prepare complete culture medium containing 2 times more serum.

Protocol Optimization

Contact us regarding protocols for optimization or reverse transduction procedures, or any technical question:
✉ **- tech@ozbiosciences.com.**

Use, handling and storage

For Research Use Only. Not for use in humans. Not for use in diagnostic or therapeutic purposes.

Shipping conditions: Room Temperature
Storage conditions AAVBlast: -20°C
Shelf life: 1 year from the date of purchase

Kit contents

AAVB250: 250 µL of AAVBlast reagent

Certificate of analysis on demand.

Related Products

Ref	Description
#LBPX1500	LentiBlast Premium lentiviral enhancer
#VM41000	ViroMag transduction reagent

Purchaser Notification | Conditions of Sale

This product is sold in accordance with our general conditions of sale that you can find on our website: https://ozbiosciences.com/content/3-terms-and-conditions.

Rev 08/26 CS