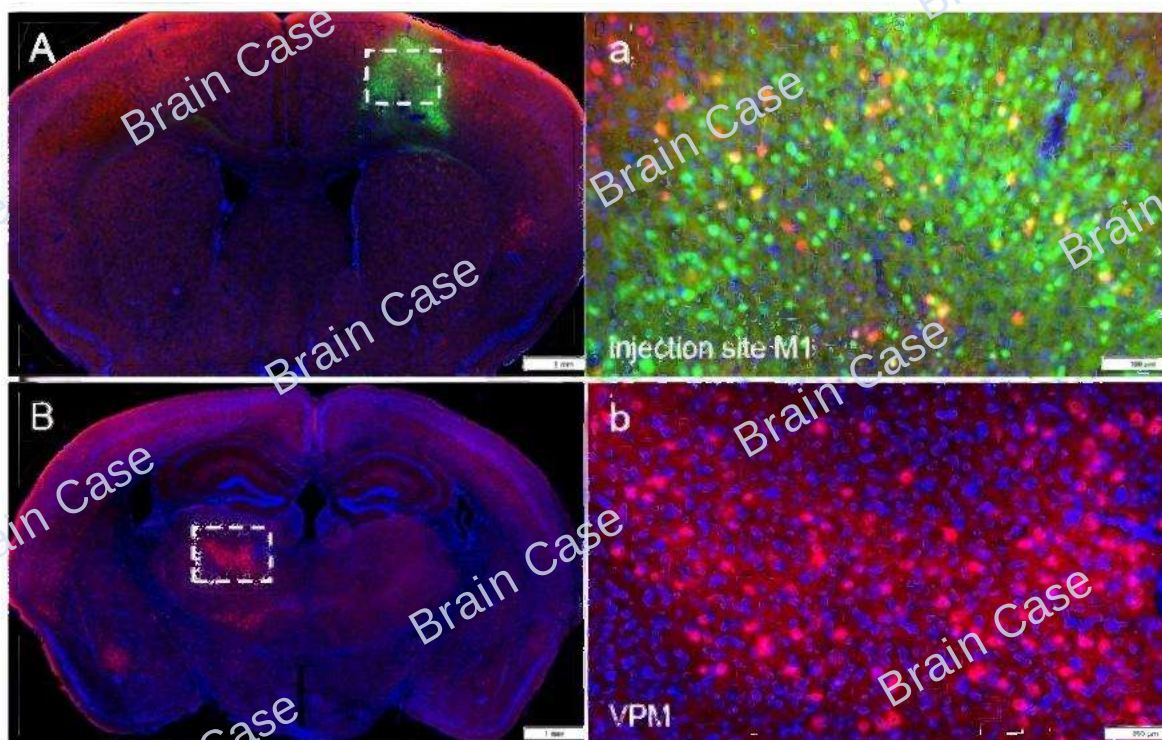


Test Report for BC-RV-CVS EnvA462

1. Test Report Information

Product Information			
Product Name:	CVS-EnvA-△G-tdTomato	Product Number :	BC-RV-CVS EnvA462
Batch Number:	BC-RV240727	Titer:	RV:4.40E+08 IFU/mL
Helper Virus Information			
Virus 1	rAAV-EF1 α -DIO-EGFP-T2A-TVA	Product Number :	BC-0041
Batch Number:	BC230609-0041-9	Titer:	AAV:5.8E+12 vg/mL
Virus 2	rAAV-EF1 α -DIO-N2cG	Product Number :	BC-0442
Batch Number:	BC240202-0442-9	Titer:	AAV:1.0E+13 vg/mL
Virus 3	rAAV-hSyn-SV40 NLS-Cre	Product Number :	BC-0159
Batch Number:	BC231110-0159-9	Titer:	AAV:3.03E+12 vg/mL
Test Methodology			
Test Site:	Primary Motor Cortex (M1), AP=+1.54, ML=+1.60, DV=-1.60	Animal Species:	C57 BL/6 mouse
Test Methods:	Day0	TVA and G were each diluted 1:4, then mixed with Cre at a ratio of TVA:G:Cre = 1:2:1, and injected at 100 nL per animal.	
	Day14	BC-RV-CVS EnvA462 was diluted 1:1 and injected into M1 at 150 nL per animal.	
	Day21	Mice sacrificed, tissue samples collected.	
Injection Date:	2024.08.16	Perfusion Date:	2024.08.23

2. Test Results



3. Results Evaluation

The RV helper virus was injected into the M1 region (TVA :G :Cre = 1:2:1). After 14 days of expression, RV was injected at the same site. Following another 7 days of normal housing, the animals were perfused for tissue collection, fixation, sectioning, and imaging.

The results showed that RV-labeled (red) neurons were observed in upstream brain regions contralateral to the injection site, such as M1 and VP, demonstrating successful retrograde monosynaptic tracing using RV.

It is recommended to dilute the helper virus to approximately 2.00×10^{12} vg/mL for use.

4. Signatures

Testing Performed by:



Reviewed by:

