

Pioneering Viral Vector Tools & Translational Medical Research

Test Report for BC-RV-CVS EnvA462

1. Test Report Information

		Product Informa	tion	0
Product Name:	CVS-EnvA-△G-tdTomato		Product Number :	BC-RV-CVS EnvA462
Batch Number:	BC-RV240727	Brain	Titer:	RV:4.40E+08 IFU/mL
	.20	Helper Virus Info	rmation	Blo
Virus 1	rAAV-EF1 α -DIO-EGFP-T2	A-TVA	Product Number	BC-0041
Batch Number:	BC230609-0041-9		Titer:	AAV:5.8E+12 vg/mL
Virus 2	rAAV-EF1 α -DIO-N2cG	C.85 [©]	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	sin Cs	Titer:	AAV:3.03E+12 vg/mL
		Test Methodolo	ogy	:20
Test Site:	Primary Motor Cortex (ML=+1.60, DV=-1.60	(M1), AP=+1.54,	Animal Species:	C57 BL/6 mouse
Test Methods:	Day0	TVA and G were each diluted 1:4, then mixed wi Cre at a ratio of TVA:G:Cre = 1:2:1, and inject at 100 nL per animal.		
Casa	Day14 BC-RV-CVS EnvA462 winto M1 at 150 nL pe			luted 1:1 and injectonal.
	Day21 Mice sacrificed, tissue samples collected.			
Injection Date:	2024. 08. 16		Perfusion Date:	2024. 08. 23

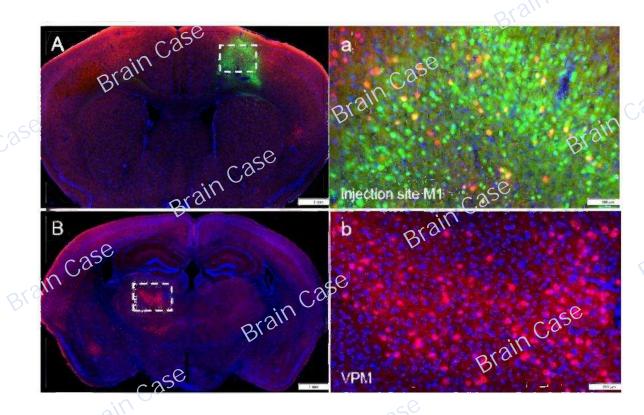
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Brain Case

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.

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It is recommended to dilute the helper virus to approximately 2.00E +12 vg/mL for use.

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4. Signatures

Testing Performed by:

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Reviewed by:

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