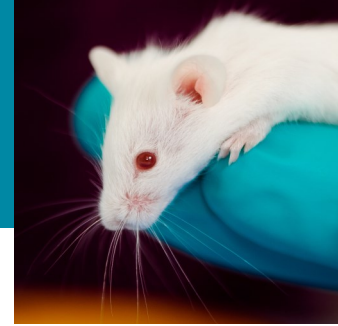


ALZET RESEARCH SUMMARY — ICV Infusion



ALZET® Osmotic Pumps are a reliable, convenient and cost effective method for continuous dosing of unrestrained laboratory animals, including mice and young rats. These small, implantable pumps are an effective tool for continuous intracerebroventricular (ICV) administration. In fact, the ALZET bibliography contains over **3,800 publications** on this research application. The table below summarizes examples of recent research using ALZET pumps for ICV infusion in mice and rats. For additional references, please contact ALZET Technical Services.

Target	Species	Coordinates*	Depth	Cannula Source	Adhesion Method	Citation
Lateral Ventricle	Rat	0.8 mm posterior 1.4 mm lateral	4.5 mm	ALZET BIK 2	Cyanoacrylate Adhesive	T. C. Uzuneser <i>et al.</i> J Psychopharmacol. 2021;35(1):65-77
Lateral Ventricle	Mice	-0.6 mm anteroposterior -1.5 mm lateral	2.1 mm	ALZET BIK 3	Cyanoacrylate Adhesive	C. Netzahualcoyotzi & L. Pellerin Prog Neurobiol. 2020;194:101888
Lateral Ventricle	Mice	1.00 mm from midline 0.34 mm anteroposterior	2.3 mm	ALZET BIK 3	Dental Cement	S. Dey S <i>et al.</i> JCI Insight. 2020;5(5):e134061
Right Lateral Ventricle	Rat	1 mm posterior 1.5 mm lateral	3.5 mm	ALZET BIK 1	Not Stated	J. E. Kim <i>et al.</i> Cells. 2020;9(5):1123
Ipsilesional Lateral Ventricle	Mice	1.0 mm lateral	0.1 mm	ALZET BIK 3	Cyanoacrylate Adhesive	A. de Boer <i>et al.</i> Hum Mol Genet. 2020;29(4):605-617
Third Ventricle	Mice	-1.0 mm anteroposterior to midline	3.0 mm	ALZET BIK 2	Cyanoacrylate Adhesive	H. Jiang, <i>et al.</i> J Cell Physiol 2019;234(5):7062-7069
Left Lateral Ventricle	Rat	-1.0 mm anteroposterior 2.0 mm mediolateral	3.5-4.0 mm	ALZET BIK 2	Dental Cement	K. Farrell & J. D. Houle. Journal of Neurotrauma 2019
Lateral Ventricle	Rat	1.2mm posterior -1.8mm laterolateral from sagittal suture	0.5 mm	ALZET BIK 2	Cyanoacrylate Adhesive	T. Zera <i>et al.</i> Autonomic Neuroscience: Basic and Clinical 2019;217(49-57)

*All coordinates are relative to bregma to unless indicated otherwise

Technical Support
toll-free: 800.692.2990
email: alzet@durect.com

Customer Service
toll-free: 877.922.5938
email: alzetcs@durect.com

Website
www.alzet.com