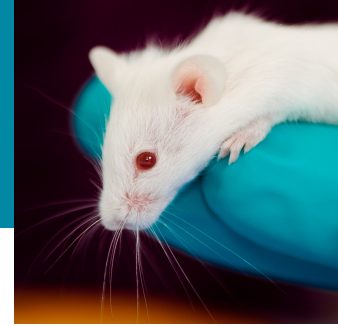


# ALZET RESEARCH SUMMARY — Drugs of Abuse



ALZET® Osmotic Pumps are a reliable, convenient and cost effective method for continuous dosing of unrestrained laboratory animals, including mice and rats. These small, implantable pumps are an effective tool for continuous administration of drugs of abuse. The table below summarizes examples of recent research using ALZET pumps for infusing drugs of abuse, including the specific drug, animal species, pump model, study duration and route of infusion. For additional references, please contact ALZET Technical Support.

Drug	Species	Duration	Pump Model	Route	Citation
Nicotine	Mice	14 days	2002	SC	M.L. Smith <i>et al.</i> Genes Brain Behav. 2023;22(2):e12844
Fentanyl	Rat	7 days	2ML1	SC	R.C.N. Marchette <i>et al.</i> J Pharmacol Exp Ther. 2023;385(2):117-134
Morphine	Rat	7 days	2ML1	IV	A.T. Amgott-Kwan and J.E. Zadina Neuropharmacology. 2023;227:109439
THC	Rat	8 weeks	2ML4	SC	K. Momenzadeh <i>et al.</i> J Cannabis Res. 2023;5(1):24
Heroin	Rat	14 days	2002	SC	N. Baidoo and F. Leri. Neuropharmacology. 2022;209:109018
Nicotine	Mice	12 days	1002	SC	T.E. Grieder <i>et al.</i> Eur J Neurosci. 2022;55(3):714-724
Cocaine	Mice	4 weeks	1004	SC	K. Ouk <i>et al.</i> Neuropharmacology. 2018;131:337-350
MDMA	Rat	10 days	2ML2	SC	S.V. Kyosseva and W.D. Wessinger. Comptes Rendus de L'Academi Bulg des Sci. 2017;70(3):427-434
Ketamine	Rat	7 days	1007D	SC	J.L. Marcos <i>et al.</i> Eur J Pain. 2017;21(10):1688-1696
Amphetamine	Rat	7 days	2ML1	SC	D. Moller <i>et al.</i> J Med Chem. 2017;60(7):2908-2929

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