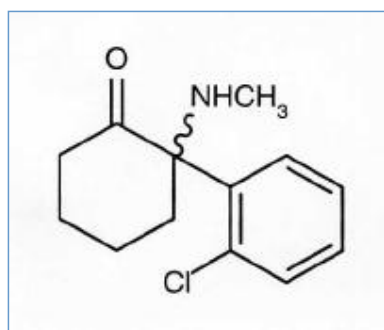


Stabilis



Ketamine hydrochloride



Tradename

Aescoket	Italy
Anesket	Colombia, Mexico
Calypsol	Hungary, Malaysia, Poland, Romania, Thailand
Inducmina	Argentina, Peru
Kanox	Malaysia
Keiram	Egypt, Venezuela
Keta	Germany, India
Keta Hameln	Peru
Ketafast	India
Ketajet	India
Ketalar	Australia, Belgium, Brazil, Canada, Chile, Colombia, Denmark, Finland, Great Britain, Ireland, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Sweden, Turkey, United Arab Emirates, United States of America
Ketalin	Mexico
Ketamar	Egypt
Ketamax	India, Venezuela
Ketamin	Germany
Ketamina	Argentina, Chile, Colombia, Peru, Venezuela
Ketamine	Canada, Egypt, France, Ireland, Italy, Malaysia, New Zealand, Romania, Tunisia, United States of America
Ketanest	Poland
Ketanir	Colombia, Ecuador, Peru
Ketashort	Colombia
Ketava	Malaysia
Ketmin	India
Ketolar	Spain
Ketsia	India
Kmin	India
Tekam	Saudi Arabia, United Arab Emirates



Stability in solutions

		10 mg/ml	25°C		182			3435
		1 mg/ml	25°C		28			3859
		1 mg/ml	33°C		7			3859
		10 mg/ml	25°C		30			1714
		1 mg/ml	25°C		365			2287
		1 mg/ml	40°C		365			2287
		1 mg/ml	4°C		365			2287
		2 & 10 mg/ml	25°C		90			5125
		2 & 10 mg/ml	4°C		90			5125
		10 mg/ml	25°C		100			4303
		50 mg/ml	25°C		180			3874
		50 mg/ml	25°C		50			3911
		0,1 mg/ml	21°C		24			1864



Stability of mixtures

		0,2 >> 1 mg/ml	25°C		Hydromorphone hydrochloride : 0,2 mg/ml	7		2336
		1 mg/ml	25°C		Droperidol : 0,05 mg/ml Fentanyl citrate : 10 µg/ml	30		1993
		40 mg/ml	23°C		Oxycodone hydrochloride : 10 mg/ml	7		4143
		4 mg/ml	23°C		Oxycodone hydrochloride : 0,4 mg/ml	7		4143
		0,1 mg/ml	23°C		Oxycodone hydrochloride : 10 mg/ml	7		4143
		0,2 >> 1 mg/ml	25°C		Hydromorphone hydrochloride : 0,2 mg/ml	7		2336
		1 mg/ml	25°C		Droperidol : 0,05 mg/ml Fentanyl citrate : 10 µg/ml	30		1993
		1 & 25 mg/ml	25°C		Morphine sulfate : 1 & 25 mg/ml	6		2350
		1 mg/ml	4°C		Droperidol : 0,05 mg/ml Fentanyl citrate : 10 µg/ml	30		1993
		4 mg/ml	23°C		Oxycodone hydrochloride : 0,4 mg/ml	7		4143
		40 mg/ml	23°C		Oxycodone hydrochloride : 10 mg/ml	7		4143
		0,1 mg/ml	23°C		Oxycodone hydrochloride : 10 mg/ml	7		4143

PP		3,6 & 42,8 mg/ml	23°C		Dexamethasone sodium phosphate : 0,07 mg/ml		2022
PP		2 mg/ml	23°C		Morphine sulfate : 2 >> 10 mg/ml		2322
PP		25 mg/ml	25°C		Clonidine hydrochloride : 0,015 mg/ml		3705
PP		25 mg/ml	25°C		Lormetazepam : 0,12 mg/ml		3705
PP		25 mg/ml	25°C		Midazolam hydrochloride : 3,6 mg/ml		3705
PP		25 mg/ml	25°C		Clonidine hydrochloride : 0,015 mg/ml Piritramide : 1 mg/ml Midazolam hydrochloride : 3,6 mg/ml Lormetazepam : 0,12 mg/ml Sufentanil citrate : 0,03 mg/ml		3705
PP		12,5 mg/ml	25°C		Propofol : 10 mg/ml		4011
PP		22,7 mg/ml	25°C		Propofol : 1,8 mg/ml		4011
PP		2,27 mg/ml	25°C		Propofol : 18 mg/ml		4011
PP		1 >> 25 mg/ml	25°C		Morphine sulfate : 1 >> 25 mg/ml		2350
PP		3,6 & 42,8 mg/ml	37°C		Dexamethasone sodium phosphate : 0,07 mg/ml		2022
PP		3,6 & 42,8 mg/ml	4°C		Dexamethasone sodium phosphate : 0,07 mg/ml		2022
PP		2 mg/ml	5°C		Morphine sulfate : 2 >> 10 mg/ml		2322
POF		0,19 mg/ml	2-8°C		Tramadol hydrochloride : 7,5 mg/ml Dexketoprofen : 2,26 mg/ml		5095
POF		0,19 mg/ml	2-8°C		Tramadol hydrochloride : 7,5 mg/ml Dexketoprofen : 2,26 mg/ml Methadone hydrochloride : 0,075 mg/ml		5095
POF		0,95 mg/ml	2-8°C		Tramadol hydrochloride : 7,9 mg/ml Ketorolac tromethamine : 0,95 mg/ml Methadone hydrochloride : 0,08 mg/ml		5095
POF		0,95 mg/ml	2-8°C		Tramadol hydrochloride : 7,9 mg/ml Ketorolac tromethamine : 0,95 mg/ml		5095
POF		0,19 mg/ml	20-25°C		Tramadol hydrochloride : 7,5 mg/ml Dexketoprofen : 2,26 mg/ml		5095
POF		0,19 mg/ml	20-25°C		Tramadol hydrochloride : 7,5 mg/ml Dexketoprofen : 2,26 mg/ml Methadone hydrochloride : 0,075 mg/ml		5095
POF		0,95 mg/ml	20-25°C		Tramadol hydrochloride : 7,9 mg/ml Ketorolac tromethamine : 0,95 mg/ml Methadone hydrochloride : 0,08 mg/ml		5095
POF		0,95 mg/ml	20-25°C		Tramadol hydrochloride : 7,9 mg/ml Ketorolac tromethamine : 0,95 mg/ml		5095
POF		1,4 mg/ml	25°C		Butorphanol tartrate : 0,067 mg/ml Droperidol : 0,034 mg/ml		4115
POF		1,4 mg/ml	4°C		Butorphanol tartrate : 0,067 mg/ml Droperidol : 0,034 mg/ml		4115
PP		3,3 mg/ml	19-25°C		Morphine hydrochloride : 2 mg/ml		5133
PP		1 mg/ml	21°C		Dexmedetomidine : 1 µg/ml Lidocaine hydrochloride : 10 mg/ml		5156

		0,2 >> 1 mg/ml	25°C		Hydromorphone hydrochloride : 0,2 mg/ml	7		2336
		2,5 mg/ml	28°C		Lidocaine hydrochloride : 20 mg/ml	48		4350
		1 mg/ml	5°C		Dexmedetomidine : 1 µg/ml Lidocaine hydrochloride : 10 mg/ml	9		5156
		5,2 mg/ml	23°C		Propofol : 4,9 mg/ml	3		2329
		3,3 mg/ml	23°C		Propofol : 6,8 mg/ml	3		2329
		27,7 mg/ml	21°C		Morphine tartrate : 57,8 mg/ml	24		1864
		41,2 mg/ml	21°C		Morphine tartrate : 17,6 mg/ml	24		1864



Compatibility



		Ketamine hydrochloride : 50 mg/ml		2109
		Ketamine hydrochloride		3501
		Ketamine hydrochloride : 50 mg/ml Aciclovir sodium : 50 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Alprostadil : 500 µg/ml		4389
		Ketamine hydrochloride : 50 mg/ml Amikacin sulfate : 250 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Aminophylline : 25 mg/ml		4389
		Ketamine hydrochloride : 50 mg/ml Amiodarone hydrochloride : 50 mg/ml		2109
		Ketamine hydrochloride		3501
		Ketamine hydrochloride : 5 mg/ml Alprostadil : 20 µg/ml		4491
		Ketamine hydrochloride : 5 mg/ml Alprostadil : 20 µg/ml		4651
		Ketamine hydrochloride : 50 mg/ml Aminophylline : 50 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Amoxicillin sodium / clavulanic acid : 100/10 mg/ml		3824
		Ketamine hydrochloride : 50 mg/ml Ampicillin sodium : 250 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Atropine sulfate : 0.4 mg/ml		2109
		Ketamine hydrochloride : 1 >> 4 mg/ml Butorphanol tartrate : 0.05 >> 0.15 mg/ml		181
		Ketamine hydrochloride : 50 mg/ml Caffeine : 10 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Caffeine : 10 mg/ml		3964
		Ketamine hydrochloride : 50 mg/ml Calcium gluconate : 100 mg/ml		2109

	Ketamine hydrochloride : 50 mg/ml Cefazolin sodium : 100 mg/ml		2109
	Ketamine hydrochloride : 10 mg/ml Cefepime dihydrochloride : 125 mg/ml		2141
	Ketamine hydrochloride : 50 mg/ml Cefotaxime sodium : 100 mg/ml		2109
	Ketamine hydrochloride : 10 mg/ml Ceftazidime : 125 mg/ml		2141
	Ketamine hydrochloride : 50 mg/ml Ceftazidime : 100 mg/ml		2109
	Ketamine hydrochloride : 10 mg/ml Ceftazidime : 83.3 mg/ml		1759
	Ketamine hydrochloride : 50 mg/ml Cefuroxime sodium : 100 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Chlorpromazine hydrochloride : 25 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Ciclosporin : 50 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Ciclosporin : 50 mg/ml		4389
	Ketamine hydrochloride : 50 mg/ml Clindamycin phosphate : 150 mg/ml		2109
	Ketamine hydrochloride : 25 mg/ml Clonidine hydrochloride : 0.015 mg/ml		3705
	Ketamine hydrochloride : 50 mg/ml Cloxacillin sodium : 100 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Cloxacillin sodium : 100 mg/ml		3012
	Ketamine hydrochloride : 50 mg/ml Co-trimoxazole : 80/16 mg/ml		2109
	Ketamine hydrochloride : 3.57 & 42.85 mg/ml Dexamethasone sodium phosphate : 0.07 mg/ml		2022
	Ketamine hydrochloride : 50 mg/ml Dexamethasone sodium phosphate : 4 mg/ml		4389
	Ketamine hydrochloride : 50 mg/ml Dexamethasone sodium phosphate : 10 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Dexmedetomidine : 100 µg/ml		4389
	Ketamine hydrochloride Diazepam		3501
	Ketamine hydrochloride : 50 mg/ml Digoxin : 50 µg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Dimenhydrinate : 50 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Diphenhydramine hydrochloride : 50 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Dobutamine hydrochloride : 12.5 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Dopamine hydrochloride : 40 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Epinephrine hydrochloride : 1000 µg/ml		2109

		Ketamine hydrochloride : 50 mg/ml Esmolol hydrochloride : 10 mg/ml		4389
		Ketamine hydrochloride : 1 mg/ml Fentanyl citrate : 40 µg/ml		1934
		Ketamine hydrochloride : 0,19 mg/ml Fentanyl citrate : 9,8 µg/ml		4436
		Ketamine hydrochloride : 50 mg/ml Furosemide : 10 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Gentamicin sulfate : 40 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Heparin sodium : 25000 UI/ml		2109
		Ketamine hydrochloride : 50 mg/ml Hydrocortisone sodium succinate : 125 mg/ml		2109
		Ketamine hydrochloride Hydromorphone hydrochloride		5073
		Ketamine hydrochloride : 0.2 >> 1 mg/ml Hydromorphone hydrochloride : 0.2 mg/ml		2336
		Ketamine hydrochloride Hydroxocobalamin		3932
		Ketamine hydrochloride : 50 mg/ml Insulin : 100 UI/ml		2109
		Ketamine hydrochloride : 50 mg/ml	RL	4603
		Ketamine hydrochloride : 50 mg/ml Isoprenaline hydrochloride : 0,2 mg/ml		4389
		Ketamine hydrochloride : 2.5 mg/ml Lidocaine hydrochloride : 20 mg/ml		4350
		Ketamine hydrochloride : 50 mg/ml Lorazepam : 4 mg/ml		4389
		Ketamine hydrochloride : 50 mg/ml Lorazepam : 4 mg/ml		2109
		Ketamine hydrochloride : 25 mg/ml Lormetazepam : 0.12 mg/ml		3705
		Ketamine hydrochloride : 50 mg/ml Magnesium sulfate : 500 mg/ml		2109
		Ketamine hydrochloride : 10 mg/ml		4507
		Ketamine hydrochloride : 50 mg/ml Meropenem : 50 mg/ml		4319
		Ketamine hydrochloride : 50 mg/ml Meropenem : 50 mg/ml		2109
		Ketamine hydrochloride Methohexital sodium		3501
		Ketamine hydrochloride : 50 mg/ml Methylprednisolone acetate : 62.5 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Metoclopramide hydrochloride : 5 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Metronidazole : 5 mg/ml		2109
		Ketamine hydrochloride : 25 mg/ml Midazolam hydrochloride : 3.6 mg/ml		3705
		Ketamine hydrochloride : 50 mg/ml Midazolam hydrochloride : 5 mg/ml		2109

	Ketamine hydrochloride : 50 mg/ml Milrinone lactate : 1 mg/ml		2109
	Ketamine hydrochloride : 3,3 mg/ml Morphine hydrochloride : 2 mg/ml		5133
	Ketamine hydrochloride : 2 mg/ml Morphine sulfate : 2 >> 10 mg/ml		2322
	Ketamine hydrochloride : 10 mg/ml Morphine tartrate : 24 mg/ml		980
	Ketamine hydrochloride : 27,7 mg/ml Morphine tartrate : 57,8 mg/ml		1864
	Ketamine hydrochloride : 41,2 mg/ml Morphine tartrate : 57,8 mg/ml		1864
	Ketamine hydrochloride : 50 mg/ml Naloxone hydrochloride : 0.4 mg/ml		3408
	Ketamine hydrochloride : 50 mg/ml Naloxone hydrochloride : 0.4 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Nicardipine hydrochloride : 0,2 mg/ml		4389
	Ketamine hydrochloride : 50 mg/ml Nitroglycerin : 5 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Nitroglycerin : 5 mg/ml		4389
	Ketamine hydrochloride : 50 mg/ml Norepinephrine bitartrate : 1 mg/ml		4389
	Ketamine hydrochloride : 50 mg/ml Ondansetron hydrochloride : 2 mg/ml		4389
	Ketamine hydrochloride : 23.5 & 44.4 mg/ml Oxycodone hydrochloride : 14.7 & 38.5 mg/ml		2900
	Ketamine hydrochloride : 23.5 & 44.4 mg/ml Oxycodone hydrochloride : 14.7 & 38.5 mg/ml		2900
	Ketamine hydrochloride : 4 mg/ml Oxycodone hydrochloride : 1 mg/ml		4842
	Ketamine hydrochloride : 0.1 & 40 mg/ml Oxycodone hydrochloride : 0.4 & 10 mg/ml		4143
	Ketamine hydrochloride : 50 mg/ml Oxytocin : 10 UI/ml		2109
	Ketamine hydrochloride : 50 mg/ml Pancuronium bromide : 2 mg/ml		2109
	Ketamine hydrochloride : 5 mg/ml Paracetamol : 10 mg/ml		4435
	Ketamine hydrochloride : 50 mg/ml Paracetamol : 10 mg/ml		4742
	Ketamine hydrochloride Pentobarbital sodium		3501
	Ketamine hydrochloride : 50 mg/ml Pethidine hydrochloride : 100 mg/ml		2109
	Ketamine hydrochloride : 2 mg/ml Pethidine hydrochloride : 12 mg/ml		321
	Ketamine hydrochloride Phenobarbital sodium		3501
	Ketamine hydrochloride : 50 mg/ml Phenytoin sodium : 50 mg/ml		2109

		Ketamine hydrochloride : 50 mg/ml Piperacillin sodium : 200 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Piperacillin sodium : 200 mg/ml		4389
		Ketamine hydrochloride : 50 mg/ml Piperacillin sodium / tazobactam : 200 mg/ml		2109
		Ketamine hydrochloride : 25 mg/ml Piritramide : 1 mg/ml		3705
		Ketamine hydrochloride : 50 mg/ml Potassium chloride : 2000 mEq/l		2109
		Ketamine hydrochloride : 50 mg/ml Potassium phosphate : 4 mmol/ml		2109
		Ketamine hydrochloride : 50 mg/ml Promethazine hydrochloride : 25 mg/ml		2109
		Ketamine hydrochloride : 1.45 >> 3.7 mg/ml Propofol : 9.26 >> 9.6 mg/ml		4157
		Ketamine hydrochloride : 3.3 mg/ml Propofol : 6.7 mg/ml		2329
		Ketamine hydrochloride : 10 mg/ml Propofol : 10 mg/ml		2329
		Ketamine hydrochloride : 2.3 >> 22.7 mg/ml Propofol : 1.8 >> 18.2 mg/ml		4011
		Ketamine hydrochloride : 10 mg/ml Propofol		660
		Ketamine hydrochloride : 10 mg/ml Propofol : 10 mg/ml		300
		Ketamine hydrochloride : 50 mg/ml Ranitidine hydrochloride : 25 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Salbutamol sulfate : 1 mg/ml		2109
		Ketamine hydrochloride : 50 mg/ml Salbutamol sulfate : 1 mg/ml		4389
		Ketamine hydrochloride : 50 mg/ml Sodium bicarbonate : 84 mg/ml		2109
		Ketamine hydrochloride : 25 mg/ml Sodium oxybate : 200 mg/ml		3705
		Ketamine hydrochloride : 50 mg/ml Sufentanil citrate : 0,05 mg/ml		4389
		Ketamine hydrochloride : 25 mg/ml Sufentanil citrate : 0.03 mg/ml		3705
		Ketamine hydrochloride : 50 mg/ml Sugammadex : 100 mg/ml		3372
		Ketamine hydrochloride : 10 mg/ml Temocilline : 83.33 mg/ml		2231
		Ketamine hydrochloride Thiopental sodium		3501
		Ketamine hydrochloride : 50 mg/ml Tobramycin sulfate : 40 mg/ml		2109
		Ketamine hydrochloride : 0.5 >> 2 mg/ml Tramadol hydrochloride : 5 mg/ml		365
		Ketamine hydrochloride : 10 mg/ml Vancomycin hydrochloride : 10 mg/ml		3385

	Ketamine hydrochloride : 50 mg/ml Vancomycin hydrochloride : 50 mg/ml		2109
	Ketamine hydrochloride : 50 mg/ml Vasopressin : 20 UI/ml		4389



Route of administration



References

	Type	Publication
181	Journal	Fuchao Chen, Hui Xiong, Jinguo Yang, Baoxia Fang, Jun Zhu, Benhong Zhou. Butorphanol and Ketamine Combined in Infusion Solutions for Patient-Controlled Analgesia Administration: A Long-Term Stability Study. Med Sci Monit 2015 ; 21:1138-1145.
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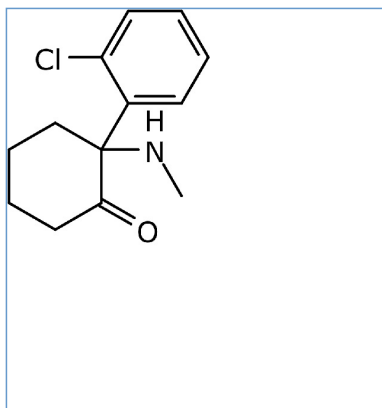
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Stabilis



Ketamine hydrochloride



Stability of pharmaceutical preparations

		500 mg ® = ?	Inorpha® >> 50 mL	2-8°C		90			4574
		2500 mg ® = ?	Inorpha® >> 50 mL	2-8°C		90			4574
		2500 mg ® = ?	Inorpha® >> 50 mL	22-25°C		90			4574
		500 mg ® = ?	Inorpha® >> 50 mL	22-25°C		90			4574



References

	Type	Publication
4574	Journal	Ancedy D, Sebti M, Postaire M, Vidal F, Cisternino S. Stability of 10-mg/mL and 50-mg/mL ketamine oral solutions. Am J Hosp Pharm 2021 ;78,9:825–831



Dictionary

	General anesthetic		injection
	Tradename		Stability in solutions
	Container		Molecule
	Concentration		Temperature
	Storage		Duration of stability
	Biosimilar		conflicting data
	References		Glass
	Water for Injection		Light
	Day		Polyvinyl chloride
	Sodium chloride 0,9%		Not specified
	Polypropylen Syringe		None
	Protect from light		Not specified
	Hour		Stability of mixtures
	Solvent		Compound
	Polypropylene		Polyolefine
	Compatibility		Immediate precipitation
	Incompatible		NaHCO ₃
	Compatible		Glucose 5%
	Immediate turbidity		Chemical instability
RL	Ringer's lactate solution		Parenteral nutrition (with lipids)
	Unspecified incompatibility		Instability of the emulsion after 6 hours
	Precipitation after 30 minutes		Route of administration
	Intravenous		Intravenous infusion
	Intramuscular		Subcutaneous
	Intrathecal		Continuous subcutaneous infusion
	References		Oral solution
	Stability of pharmaceutical preparations		Origine
	excipient		plastic bottle
	powder		Dictionary