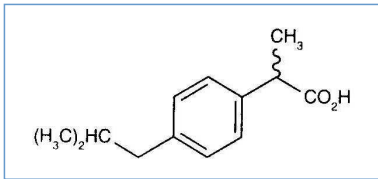


# Stabilis



## Ibuprofen lysinate



Tradename

Caldolor	United States of America
Neoprofen	United States of America



### Stability in solutions

?		1 & 4 mg/ml	25°C		15			1985
?		27,5 mg/ml	25°C		15			1985
?		1 & 4 mg/ml	25°C		15			1985



### Factors which affect stability












				1985
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### Compatibility

Ibuprofen lysinate : 10 mg/ml Amikacin sulfate : 250 mg/ml		4419
Ibuprofen lysinate : 4 mg/ml Caffeine : 10 mg/ml		4837
Ibuprofen lysinate : 10 mg/ml Caffeine citrate : 20 mg/ml		4419
Ibuprofen lysinate : 4 & 6 mg/ml Colistin mesilate sodium : 0,67 & 1,5 mg/ml		4855
Ibuprofen lysinate : 10 mg/ml Dobutamine hydrochloride : 1 mg/ml		4419
Ibuprofen lysinate : 4 mg/ml Esmolol hydrochloride : 10 mg/ml		3879

		Ibuprofen lysinate : 10 mg/ml Heparin sodium : 10 UI/ml		4419
		Ibuprofen lysinate : 4 mg/ml Hydrocortisone sodium succinate : 1 mg/ml		4465
		Ibuprofen lysinate : 10 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Amikacin sulfate : 50 mg/ml		4419
		Ibuprofen lysinate : 4 mg/ml Caffeine citrate : 20 mg/ml		4837
		Ibuprofen lysinate : 10 mg/ml Ceftazidime : 200 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Epinephrine hydrochloride : 8 >> 100 µg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Furosemide : 10 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Heparin sodium : 100 UI/ml		4419
		Ibuprofen lysinate : 10 mg/ml Insulin : 0.1 UI/ml		4419
		Ibuprofen lysinate : 10 mg/ml Insulin : 1 UI/ml		4419
		Ibuprofen lysinate : 10 mg/ml Morphine sulfate : 0.5 mg/ml		4419
		Ibuprofen lysinate : 2,5 & 5 mg/ml		4464
		Ibuprofen lysinate : 1,25 mg/ml		4464
		Ibuprofen lysinate : 2,5 & 5 mg/ml		4464
		Ibuprofen lysinate : 4 mg/ml Labetalol hydrochloride : 5 mg/ml		3879
		Ibuprofen lysinate : 4 mg/ml Metoprolol tartrate : 0.4 mg/ml		3879
		Ibuprofen lysinate : 10 mg/ml Midazolam hydrochloride : 1 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Midazolam hydrochloride : 5 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Morphine sulfate : 50 mg/ml		4419
		Ibuprofen lysinate : 5 mg/ml Pentoxifyllin : 5 mg/ml		4543
		Ibuprofen lysinate : 10 mg/ml Phenobarbital sodium : 30 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Phenobarbital sodium : 130 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Potassium chloride : 2 mEq/l		4419
		Ibuprofen lysinate : 4 mg/ml Sildenafil citrate : 0,6 mg/ml		4845
		Ibuprofen lysinate : 4 mg/ml Sildenafil citrate : 0.06 mg/ml		4845
		Ibuprofen lysinate : 10 mg/ml Sodium bicarbonate : 84 mg/ml		4419

		Ibuprofen lysinate : 10 mg/ml Vancomycin hydrochloride : 50 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Vecuronium bromide : 2 mg/ml		4419
		Ibuprofen lysinate : 10 mg/ml Vecuronium bromide : 1 mg/ml		4419
		Ibuprofen lysinate : 1,25 mg/ml		4464



## Route of administration









































## References

	Type	Publication
1985	Journal	Volonté MG, Valora PD, Congolani A, Ferrara M. Stability of ibuprofen in injection solutions. Am J Health-Syst Pharm 2005 ; 62: 630-633.
3879	Journal	Foushee Jaime A, Meredith Pmichalee, Fox Laura M, Grace Edward E. Y-site Physical Compatibility of Beta-blocker Infusions with Intensive Care Unit Admixtures. Int J Pharm Compound 2016 ; 20, 4 : 328-332.
4419	Journal	Holt R.J, Siegert S.W.K, Krishna A. Physical Compatibility of Ibuprofen Lysine Injection with Selected Drugs During Simulated Y-site Injection. J Pediatr Pharmacol Ther 2008 ; 13, 3: 155-161.
4464	Journal	Garcia J, Garg A, Song Y, Fotios A, Andersen C, Garg S. Compatibility of intravenous ibuprofen with lipids and parenteral nutrition, for use as a continuous infusion. PlosOne 2018 13(1): e0190577.
4465	Journal	Foushee A, Meredith P, Fox Laura, Wilder A. Y-site physical compatibility of hydrocortisone continuous infusions with admixtures used in critically ill patients. Am J Health-Syst Pharm 2020 ;77,14:1144-1148
4543	Journal	Senarathna G, Strunk T, Petrovski M, Batty K. Physical compatibility of pentoxifylline and intravenous medications. Archives of Disease in Childhood 2018 ;104:292–295.
4837	Journal	De Silva, D.T.N Petrovski M, Strunk T, Mukadam N, Page Sharp N, Moore B.R, Batty K.T. Physicochemical compatibility of caffeine citrate and caffeine base injections with parenteral medications used in neonatal intensive care settings. Eur J Clin Pharmacol 2024 ; 80:1079–1087.
4845	Journal	De Silva D.T.N, Strunk T, Petrovski M, Page-Sharp M, Moore B.R, Batty K.T. The Physicochemical Compatibility of Sildenafil Injection with Parenteral Medications Used in Neonatal Intensive Care Settings. Pharmaceutics 2024 ;1 6, 419.
4855	Journal	Detlaff K, Kowalska A, Gostyńska A. Physical compatibility of colistin with analgesics during simulated Y-site administration. Am J Hosp Pharm 2024 ;81,13:365-371



# Dictionary

 Anti-inflammatory	 injection
 Tradename	 Stability in solutions
 Container	 Molecule
 Concentration	 Temperature
 Storage	 Duration of stability
 Biosimilar	 conflicting data
 References	 Not specified
 Water for Injection	 Light
 Day	 With or without light
 NaCl 0,9% or Glucose 5%	 Factors which affect stability
 Induces	 Degradation
 Compatibility	 Compound
 Solvent	 Immediate turbidity
 Incompatible	 Compatible
 Sodium chloride 0,9%	 Precipitation after 4 hours
 Parenteral nutrition (with lipids)	 Immediate precipitation
 Parenteral nutrition (binary mixture)	 Glucose 5%
 Route of administration	 Intravenous infusion
 References	 Dictionary