

论著

丁丙诺啡在家兔体内分布规律研究

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摘要:

目的: 研究丁丙诺啡在家兔体内的分布规律。方法: 家兔经灌胃或静脉注射给药丁丙诺啡氯化钠溶液(0.04mg/kg 丁丙诺啡), 2 h 后处死家兔, 取血液、尿液、肝、肾、肺、胃、脑、心脏、胃内容物、粪便等体液、组织检材, 处理后用液相色谱-质谱(liquid chromatographic-mass spectrometric, LC-MS) 方法测定检材中丁丙诺啡含量。结果: 家兔经灌胃或静脉注射丁丙诺啡 2 h 后, 家兔体内尿液中丁丙诺啡浓度最高, 其次是胃内容物, 之后依次为脑、心脏、胃、肺、肾、肝、血液、粪便。结论: 所建立的方法可用于丁丙诺啡涉毒案件中体液、组织检材的检验, 尿液为鉴定丁丙诺啡滥用的最佳检材。

关键词: 丁丙诺啡 家兔 分布

Study on the distribution of buprenorphine in the bodies of the rabbits

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Abstract:

Objective: To investigate the distribution of buprenorphine in the bodies of rabbits. **Methods:** Buprenorphine was administrated to rabbits orally or by intravenous injection (0.04 mg/kg buprenorphine). Two hours after administration, rabbits were killed and their blood, urine, liver, kidney, lung, stomach, brain, heart, stomach content and feces were collected. The concentrations of buprenorphine in these body fluids and tissues were determined by liquid chromatography-mass spectrometry (LC-MS).

Results: The results show the distribution of buprenorphine in rabbit's body: urine > stomach content > brain > heart > stomach > lung > kidney > liver > blood > feces.

Conclusion: The method developed can be used for the detection of buprenorphine in biological fluids and tissues in forensic practice. Urine is the preferred sample for screening for buprenorphine abuse.

Keywords: buprenorphine rabbit distribution

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