

论文

中国乌头的研究Ⅶ.乌头生物碱的薄层层析

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摘要:

本文选择七种已知结构的生物碱,用不加粘合剂氧化铝薄层层析法的条件进行了研究,结果表明此法完全可应用于乌头生物碱的检定.其较好条件是细度小于150号筛孔,活性IV级碱性氧化铝为吸附剂;石油醚-乙醚(1:10)为展开剂和以碘蒸气为显色剂.将此薄层层析条件应用到从中国乌头中分出的新生物碱检查时,亦获得良好的结果.

关键词:

THE ALKALOIDS OF THE CHINESE DRUGS, ACONITINUM SPP.—Ⅶ. THIN-LAYER CHROMATOGRAPHY FOR ACONITE ALKALOIDS

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Abstract:

Seven known alkaloids, aconitine, mesaconitine, hyaconitine, delphine, delcosine, methyllycaconitine, and delsemine, were employed for the study of thin-layer chromatographic separation and identification of aconite alkaloids. It was found that basic alumina of activity IV with particle size smaller than 150 mesh was a suitable adsorbent, and a mixture of petroleum ether and ether (1:10) was a suitable developing agent. The results in the present work indicated that thin-layer chromatography was a satisfactory method for rapid identification of alkaloids of aconite including Chinese aconites.

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