

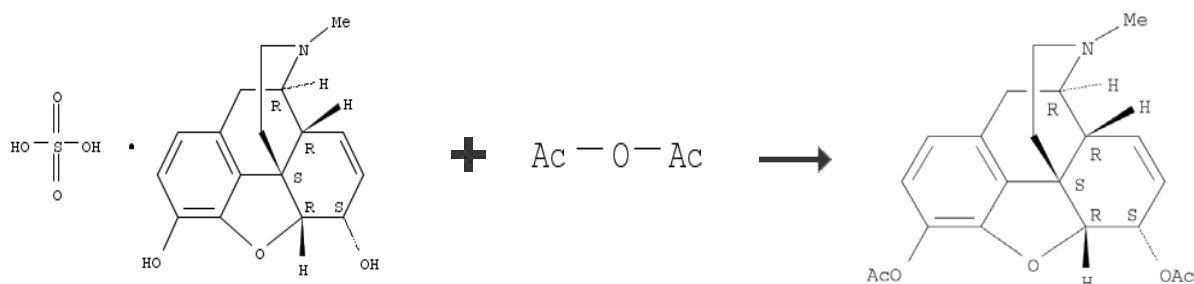
Scifinder

標題打:Heroin synthesis 想要找出海洛因的製程過程，最後完全符合這兩單字的文章共有 4 筆於是便選了其中一篇

A 'cold synthesis' of heroin and implications in heroin signature analysis. Utility of trifluoroacetic/acetic anhydride in the acetylation of morphine

By: Odell, Luke R.; Skopec, Jana; McCluskey, Adam

Treatment of morphine, at room temp., with a mixt. of trifluoroacetic anhydride (TFAA) and acetic acid (20-30 min) affords good yields of heroin. GC-MS and HPLC examn. shows that heroin produced by this route to be extremely clean, but the product contains slightly less heroin than obsd. via the more traditional acetic anhydride (AA) route (76.1% vs. 83.55%); and greater quantities of 3-MAM and 6-MAM (6.9% vs. 0.75% and 7.13% vs. 0.63%). The concn. ratios of the major alkaloid impurities were found to be both prodn. method (TFAA and AA) as well as morphine extn. methodol. dependant. Data contained herein describe the impact of this new prodn. method on current intelligence efforts, largely by-passing existing heroin signature programs and the UNDCP's efforts to restrict access to key synthetic precursors. Given the methodol. dependency we find that examn. of the major alkaloid ratios is unsuitable for the development of a new heroin signature program. Further examn. of the TFAA methodol. allowed the identification of TFAA specific marker compds., namely bis-trifluoroacetylmorphine (30), 3-trifluoroacetyl-6-acetylmorphine (31), 3-acetyl-6-trifluoroacetylmorphine (32) and trifluoroacetylcodeine (33). However, the hydrolytic lability of trifluoroacetyl esters requires careful treatment of suspect samples, thus we propose a modification to existing HSP's in instances where the 6-MAM/WM ratio falls within the av. min. and max. values of 6.17 and 17.32.



Thomson Innovation

Patent Search 的地方選取 text field 關鍵字打上 heroin

出現得相關文件有 18,345,751 筆於是選取了一篇比較有興趣的標題

這篇的目的是找出一項方法使藥物的使用量可減少

Abuse-proofed dosage form

Patent number: [US8075872B2](#)

Assignee: Grunenthal GmbH

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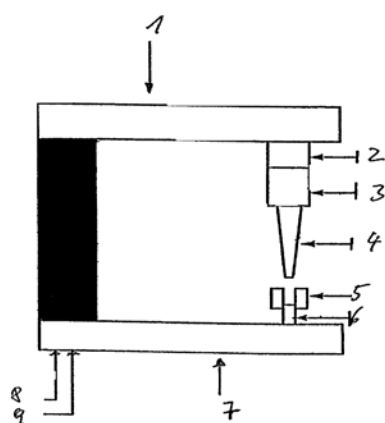
Abstract

The invention relates to a dosage form that is thermoshaped without being extruded and that is safeguarded from abuse, comprising at least one synthetic or natural polymer having a breaking strength of at least 500 N in addition to one or more active substances that could be subject to abuse and optionally physiologically acceptable adjuvants. The invention also relates to a corresponding method for producing said dosage form.

Claims

1. An abuse-proofed dosage form thermoformed by extrusion without discoloration and having a breaking strength of at least 500 N, which contains a mixture of:

- i) one or more active ingredients with abuse potential (A) selected from the group consisting of opioids,
- ii) optionally physiologically acceptable auxiliary substances (B),
- iii) from 30% by weight to 99.9% by weight of at least one polyalkylene oxide (C), having a molecular weight of from about 4, 000, 000 g/mol up to 15, 000, 000 g/mol,
- iv) optionally at least one wax (D), and
- v) a further material selected from the group consisting of hydroxypropylmethylcellulose, hydroxypropylcellulose and hydroxymethylcellulose,
- wherein said extrusion takes place in an extruder at a temperature of from at least the
- softening point of the polyalkylene oxide up to a temperature of below 180° C., and
- wherein component (C) and/or the optionally present component (D) serve as a
- controlled release matrix material in which the active ingredient with abuse potential
- (A) is embedded and said dosage form not being in multiparticulate form.



Related Applications						
Parent / Child Id	Application Number	Filed Date	Publication Number	Publication Date	Type of Relationship	Status
C	US2006349544A	2006-02-06	US20070183979A1	2007-08-09		
P	US2003718112A	2003-11-20			Continuation-in-part	Pending

心得:

第一次使用這麼專業的搜尋軟體。幸好實驗課有機會讓我們知道學校有提供這樣的資源，否則可能到畢業都不知道學校為我們買了這麼昂貴的軟體，**scifinder** 和 **innovation** 提供的資源真的很強大，雖然有些搜尋功能學校沒有全部買齊，但就以我們所能搜索到的資源就能窺知這兩樣軟體真的很強大，也難怪從事學術領域的人會如此依賴 **scifinder**。我對於 **scifinder** 的使用方法還沒很熟悉，不過以後遇到的報告都可利用這兩項資源，之後也會更熟悉他們的操作方式。學校由於沒有買齊 **Thomson Innovation** 所以有很多資料都沒辦法看見，這是有點可惜的地方，不過 **scifinder** 提供的資料現階段對我們來說也已經足夠了。