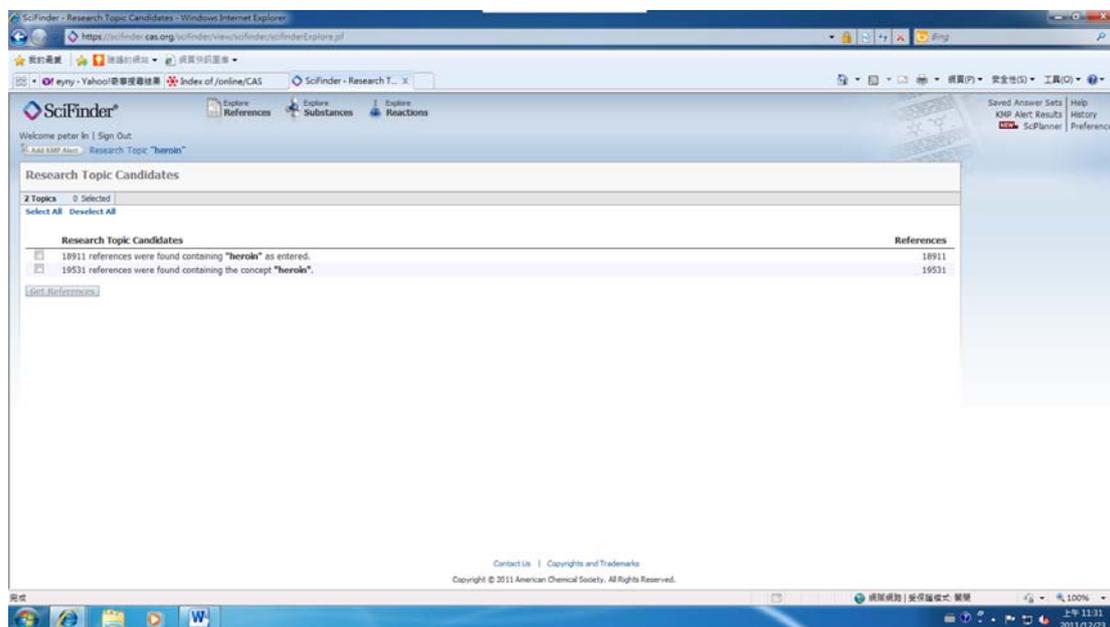


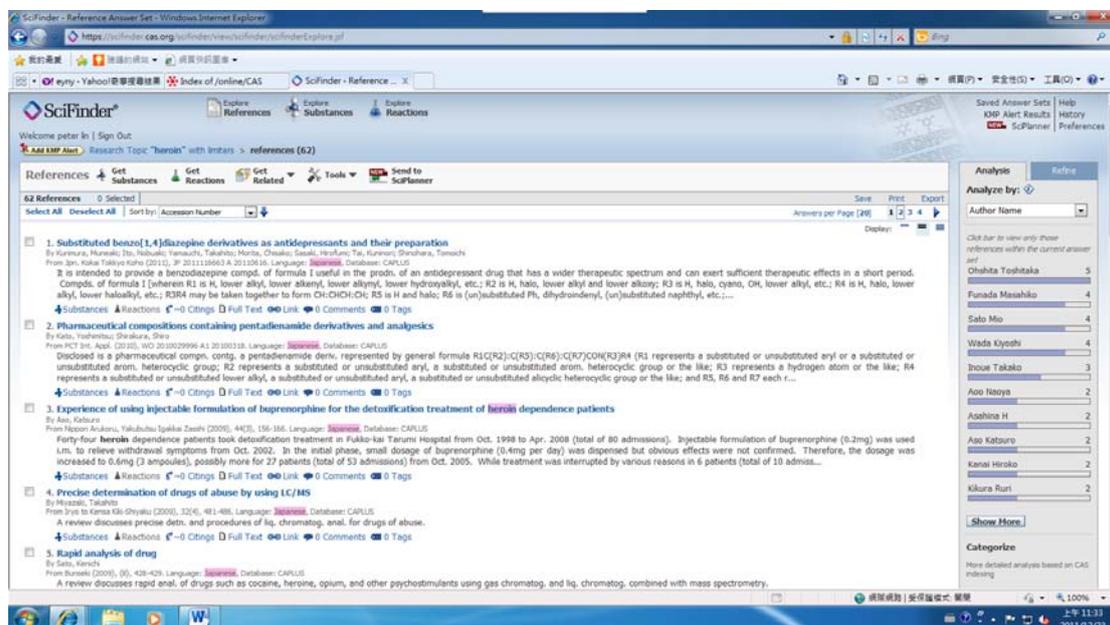
B303098148 林汶韻

scifinder

Heroin 製作方式.過程



最一開始搜尋因為找到過萬筆資料有許多分類無法使用



後我選擇以 japanese 為限制搜尋到 69 筆資料

再點入 get reaction 尋找相關反應的

SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/Explora.jsf

SciFinder - Reaction A... X

Reactions 9 Reactions 0 Selected

1. View Reaction Detail [Link](#)

3 Steps Never over any structure for more options.

[Step 3.1]

Overview

Steps/Stages

- 1.1 S:MeOH, 1 h, 70°C
- 1.2 S:MeOH, 1 h, 70°C
- 2.1 S:MeOH, 1 h, 70°C
- 3.1 R:

R: EtN=C(N)(CH<sub>2</sub>)<sub>2</sub>NMe<sub>2</sub>; HCl, S:DMF, 8 h, 50°C

Notes

1) stereoselective, ee 90%, 2) ee 99%, Reactants: 3, Reagents: 2, Solvents: 2, Steps: 3, Stages: 4, Most stages in any one step: 2

References

Pharmaceutical compositions containing pentadienamide derivatives and analogues  
 By Kato, Yoshitsugu and Shikura, Shiro  
 From PCT Int. Appl., 2010029996, 18 Mar 2010  
[Full Text](#)

2. View Reaction Detail [Link](#)

3 Steps Never over any structure for more options.

11:27 2011/12/23

SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/Explora.jsf

SciFinder - Reaction A... X

Overview

Steps/Stages

- 1.1 S:MeOH, 1 h, 70°C
- 1.2 S:MeOH, 1 h, 70°C
- 2.1 S:MeOH, 1 h, 70°C
- 3.1 R:

R: EtN=C(N)(CH<sub>2</sub>)<sub>2</sub>NMe<sub>2</sub>; HCl, S:DMF, 8 h, 50°C

Notes

1) stereoselective, ee 90%, 2) ee 99%, Reactants: 3, Reagents: 2, Solvents: 2, Steps: 3, Stages: 4, Most stages in any one step: 2

References

Pharmaceutical compositions containing pentadienamide derivatives and analogues  
 By Kato, Yoshitsugu and Shikura, Shiro  
 From PCT Int. Appl., 2010029996, 18 Mar 2010  
[Full Text](#)

3. View Reaction Detail [Link](#)

3 Steps Never over any structure for more options.

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SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinderexplorer.pl

Index of online/CAS

From PCT Int. Appl., 2010029996, 18 Mar 2010  
Full Text

3. View Reaction Detail [Link](#)  
 2 Steps *Never enter any structure for more options.*

4. View Reaction Detail [Link](#)  
 2 Steps *Never enter any structure for more options.*

**Overview**  
**Steps/Stages**  
 1.1 S:MeOH, 1 h, 70°C  
 1.2 S:MeOH, 1 h, 70°C  
 2.1 S:MeOH, 1 h, 70°C

**Notes**  
 1) stereoselective, ee 90%, 2) ee 99%, Reactants: 2, Solvents: 1, Steps: 2, Stages: 3, Most stages in any one step: 2

**References**  
 Pharmaceutical compositions containing pentadienamide derivatives and analogues  
 By Kato, Yoshitatsu and Shinkura, Shiro  
 From PCT Int. Appl., 2010029996, 18 Mar 2010  
[Full Text](#)

11:28  
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SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinderexplorer.pl

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By Kato, Yoshitatsu and Shinkura, Shiro  
From PCT Int. Appl., 2010029996, 18 Mar 2010  
Full Text

4. View Reaction Detail [Link](#)  
 2 Steps *Never enter any structure for more options.*

5. View Reaction Detail [Link](#)  
 2 Steps *Never enter any structure for more options.*

**Overview**  
**Steps/Stages**  
 1.1 S:MeOH, 1 h, 70°C  
 2.1 R:

**Notes**  
 1) ee 99%, Reactants: 2, Reagents: 2, Solvents: 2, Steps: 2, Stages: 2, Most stages in any one step: 1

**References**  
 Pharmaceutical compositions containing pentadienamide derivatives and analogues  
 By Kato, Yoshitatsu and Shinkura, Shiro  
 From PCT Int. Appl., 2010029996, 18 Mar 2010  
[Full Text](#)

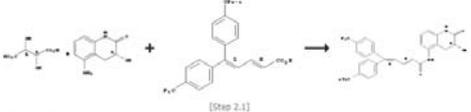
11:28  
 2011/12/23

SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinderexplorer.pl

Reaction:  $R:EtN=C=N(CH_2)_2NMe_2 + HCl, S:DMF, 8 h, 50^\circ C$

**5. View Reaction Detail** [Link](#)  
**2 Steps** *Hover over any structure for more options.*

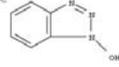


[Step 2.1]

**Overview**

**Steps/Stages**

1.1 S:MDOL, 1 h, 70°C  
 2.1 R:



**Notes**

1) ee 99%, Reactants: 2, Reagents: 2, Solvents: 2, Steps: 2, Stages: 2, Most stages in any one step: 1

**References**

Pharmaceutical compositions containing pentadienamide derivatives and analogues  
 By Kato, Toshimitsu and Shirakura, Shoji  
 From PCT Int. Appl., 2010/29996, 18 Mar 2010  
[Full Text](#)

**6. View Reaction Detail** [Link](#) [Similar Reactions](#)  
**Single Step** *Hover over any structure for more options.*



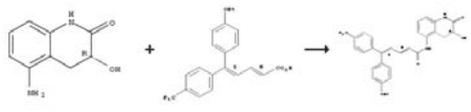
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SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinderexplorer.pl

Reaction:  $R:EtN=C=N(CH_2)_2NMe_2 + HCl, S:DMF, 8 h, 50^\circ C$

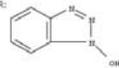
**6. View Reaction Detail** [Link](#) [Similar Reactions](#)  
**Single Step** *Hover over any structure for more options.*



**Overview**

**Steps/Stages**

1.1 R:



**Notes**

Reactants: 2, Reagents: 2, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

**References**

Pharmaceutical compositions containing pentadienamide derivatives and analogues  
 By Kato, Toshimitsu and Shirakura, Shoji  
 From PCT Int. Appl., 2010/29996, 18 Mar 2010  
[Full Text](#)

**7. View Reaction Detail** [Link](#)  
**Single Step** *Hover over any structure for more options.*

2011/12/23

SciFinder - Reaction Answer Set - Windows Internet Explorer  
 https://scifinder.cas.org/scifinder/view/scifinderexplorer.pl

Pharmaceutical compositions containing pentadenamide derivatives and analgesics  
 By Kato, Yoshihito and Shrakura, Shiro  
 From PCT Int. Appl., 2010/29996, 18 Mar 2010  
 Full Text

$R:EtH=C(H)(CH_2)_5Me_2 + HCl, S:DMF, 8 h, 50^\circ C$

7. View Reaction Detail [Link](#)  
 Single Step Never over any structure for more options.

Overview

Steps/Stages

1.1 S:MeOH, 1 h, 70°C  
 1.2 S:MeOH, 1 h, 70°C

Notes

stereoselective, ee 90%, Reactants: 2, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

Pharmaceutical compositions containing pentadenamide derivatives and analgesics  
 By Kato, Yoshihito and Shrakura, Shiro  
 From PCT Int. Appl., 2010/29996, 18 Mar 2010  
 Full Text

8. View Reaction Detail [Link](#)  
 Single Step Never over any structure for more options.

SciFinder - Reaction Answer Set - Windows Internet Explorer  
 https://scifinder.cas.org/scifinder/view/scifinderexplorer.pl

stereoselective, ee 90%, Reactants: 2, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

Pharmaceutical compositions containing pentadenamide derivatives and analgesics  
 By Kato, Yoshihito and Shrakura, Shiro  
 From PCT Int. Appl., 2010/29996, 18 Mar 2010  
 Full Text

8. View Reaction Detail [Link](#)  
 Single Step Never over any structure for more options.

Overview

Steps/Stages

1.1 S:MeOH, 1 h, 70°C

Notes

ee 99%, Reactants: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Pharmaceutical compositions containing pentadenamide derivatives and analgesics  
 By Kato, Yoshihito and Shrakura, Shiro  
 From PCT Int. Appl., 2010/29996, 18 Mar 2010  
 Full Text

9. View Reaction Detail [Link](#) [Similar Reactions](#)  
 Single Step Never over any structure for more options.

The screenshot displays the SciFinder Reaction Explorer interface. At the top, there is a navigation bar with the URL <https://scifinder.cas.org/scifinder/view/scifinder/scifinderexplorer.pl>. Below the navigation bar, there are several tabs and a search bar. The main content area is divided into several sections:

- References:** A section titled "References" with the text "Pharmaceutical compositions containing pentadienamide derivatives and analgesics" and a citation: "By Kato, Yoshimizu and Shinkuro, Shiro. From PCT Int. Appl., 2010029996, 18 Mar 2010". There is a "Full Text" link.
- 9. View Reaction Detail:** A section with a "Link" icon and a "Similar Reactions" link. Below this is a "Single Step" section with the text "Never enter any structure for more options.".
- Chemical Reaction Scheme:** A reaction scheme showing the synthesis of a pentadienamide derivative. The reactant is a substituted benzamide derivative, and the product is a more complex pentadienamide derivative. The yield is indicated as 49%.
- Overview:** A section with a "Steps/Stages" subsection. It shows a "1.1 R:" section with a chemical structure of a benzamide derivative. Below this is a list of reagents: "R: EtN=C=N(CH<sub>2</sub>)<sub>2</sub>pMe<sub>2</sub> + HCl, S: DMF, 8 h, 50°C".
- Notes:** A section titled "Notes" with the text "Reactants: 2, Reagents: 2, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1".
- References:** A section titled "References" with the text "Pharmaceutical compositions containing pentadienamide derivatives and analgesics" and a citation: "By Kato, Yoshimizu and Shinkuro, Shiro. From PCT Int. Appl., 2010029996, 18 Mar 2010". There is a "Full Text" link.

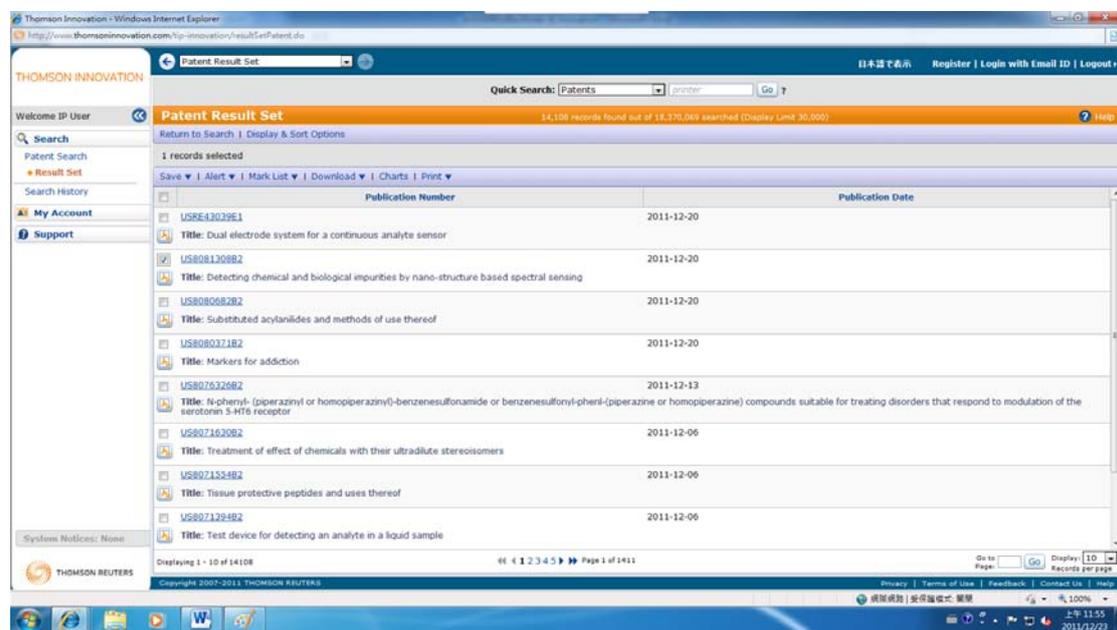
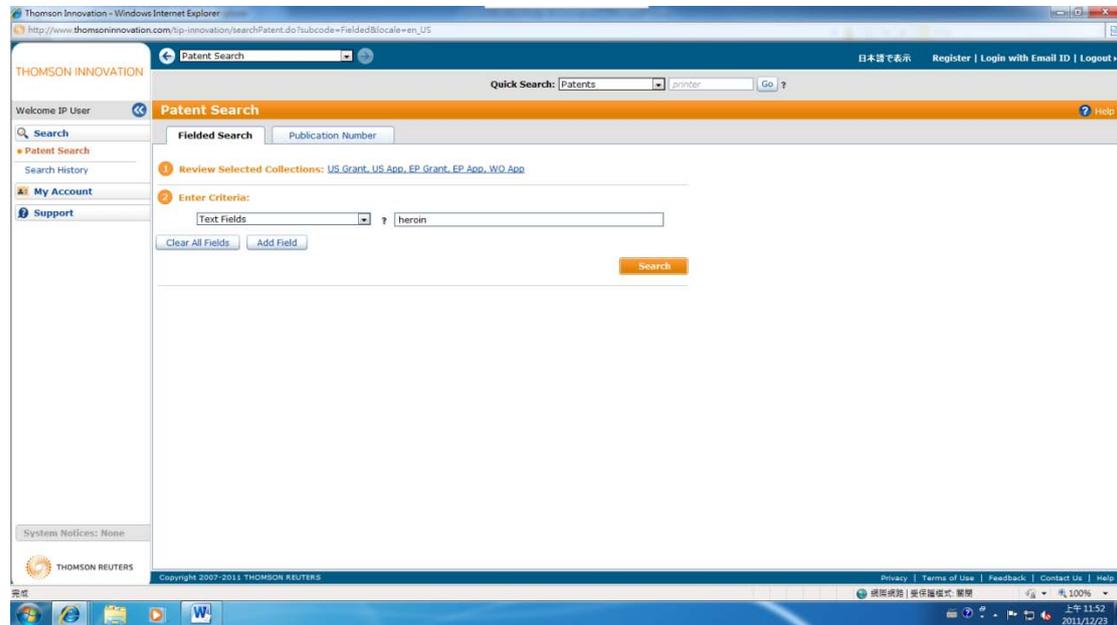
At the bottom of the page, there is a footer with the text "Contact Us | Copyrights and Trademarks" and "Copyright © 2011 American Chemical Society. All Rights Reserved.".

搜尋過後他顯示了過程的步數及產率最後可以選擇哪個較好的符合需求的反應  
 點開資料繼續閱讀

心得:scifinder 是個很好用的搜尋器有很多很棒的功能如製作反應的表和處從  
 planner 讓自己可以不用再一次做搜尋都是很方便的設置唯一的缺點可能就是線上  
 只有 2 人能使用吧

## innovation

專利平台搜索：海洛因向來是國人所吸食的毒品中最高級的，在那麼貴中的毒品之下，當然也要有他專屬的純度檢驗方法，在此我以檢驗海洛因純度的方法，來搜索其專利



專利編號：US8081308B2

Thomson Innovation - Windows Internet Explorer  
http://www.thomsoninnovation.com/ip-innovation/recordView.do?pageOffset=1&recordCount=20&pageSize=20&totalRecords=14108&fromRecordView=false&dataSource=T3&category=PAT&record=2&viewSizeId=21707704&databaseId=PATENT&idType=uid&id=US8081308B2

Patent Record View - US8081308B2

Record View: Patent US8081308B2

Add to Work File | Mark Record | Watch Record | Download | Print

Quick View

DWPI Title ?

Original Title ?  
Detecting chemical and biological impurities by nano-structure based spectral sensing

Abstract ?  
A method is disclosed for providing quality assurance in an industrial process. The method includes obtaining a manufacturing material from the industrial process, allowing the manufacturing material to contact with a nano-scale surface, which allows the harmful substance to adsorb to the nano-scale surface. The method also includes obtaining a Raman spectrum from the manufacturing material and the nano-scale surface using a spectrometer, searching for, using a spectral analyzer, a spectral signature of a harmful substance in a predetermined spectral region in the Raman spectrum to determine the existence of the harmful substance in the manufacturing material, determining the concentration of the manufacturing material if the spectral signature is found in the Raman spectrum, and rejecting the manufacturing material from the industrial process if the concentration of the manufacturing material is determined to be above a predetermined tolerance level.

First Claim ?  
1. A manufacturing system, comprising:  
• a product system configured to produce a product using at least one raw material; and  
• a quality-assurance and manufacturing-control system configured to obtain a manufacturing material from the product system, wherein the manufacturing material includes the raw material, the product, or an intermediary material or by-product that is optionally obtained from the raw material in the production system, wherein the quality-assurance and manufacturing-control system is configured to introduce the manufacturing material in a sample solution, to allow the manufacturing material in the sample solution to contact with a nano-scale surface, to illuminate the manufacturing material and the nano-scale surface by a laser beam, to allow the laser beam to be scattered by the manufacturing material and the nano-scale surface to produce a scattered light, to obtain a Raman spectrum from the scattered light using a spectrometer, to search for a spectral signature of a harmful substance in a predetermined spectral region in the Raman spectrum to determine the existence of the harmful substance in the manufacturing material, to qualify the manufacturing material if the spectral signature is not found in the Raman spectrum, to determine the concentration of the manufacturing material if the spectral signature is found in the Raman spectrum, to determine the concentration of the manufacturing material if the concentration of the manufacturing material is determined to be below a predetermined tolerance level, and to reject the manufacturing material if the concentration of the manufacturing material is determined to be above a predetermined tolerance level.

Record 2 of 14108

Images  
Image 1/38  
Zoom (+)

125 Optical Fibers  
130  
141 Laser  
140 Spectrometer  
150 Spectral Analyzer  
Output Signal 160

心得：跟隨我 scifinder 搜尋過後 heroin 的製作方法及過程後再搜尋 heroin 的純度檢測方式專利此專利顯示了以各方式檢驗海洛因的純度  
此平台提供了專利的檢所及各種如圖的設計及專利分部的地試圖  
但因是試用的所以有許多東西還無法使用時在非常可惜  
雖然我的作業所做為毒品 heroin 但吸食毒品是不對的