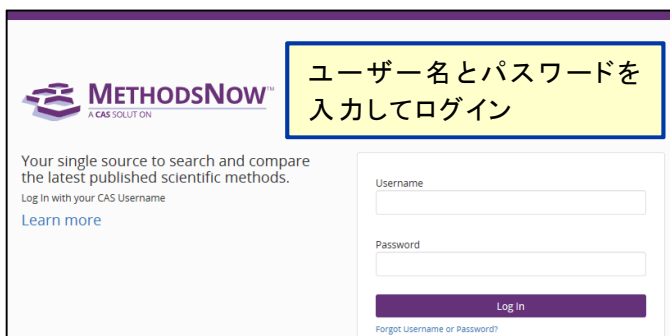


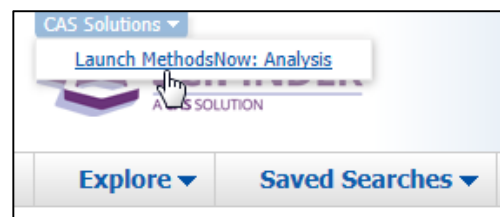
## MethodsNow Analysis

分析手法を調べるツール

### 1 MethodsNow へ接続します <https://www.methodsnow.com/>

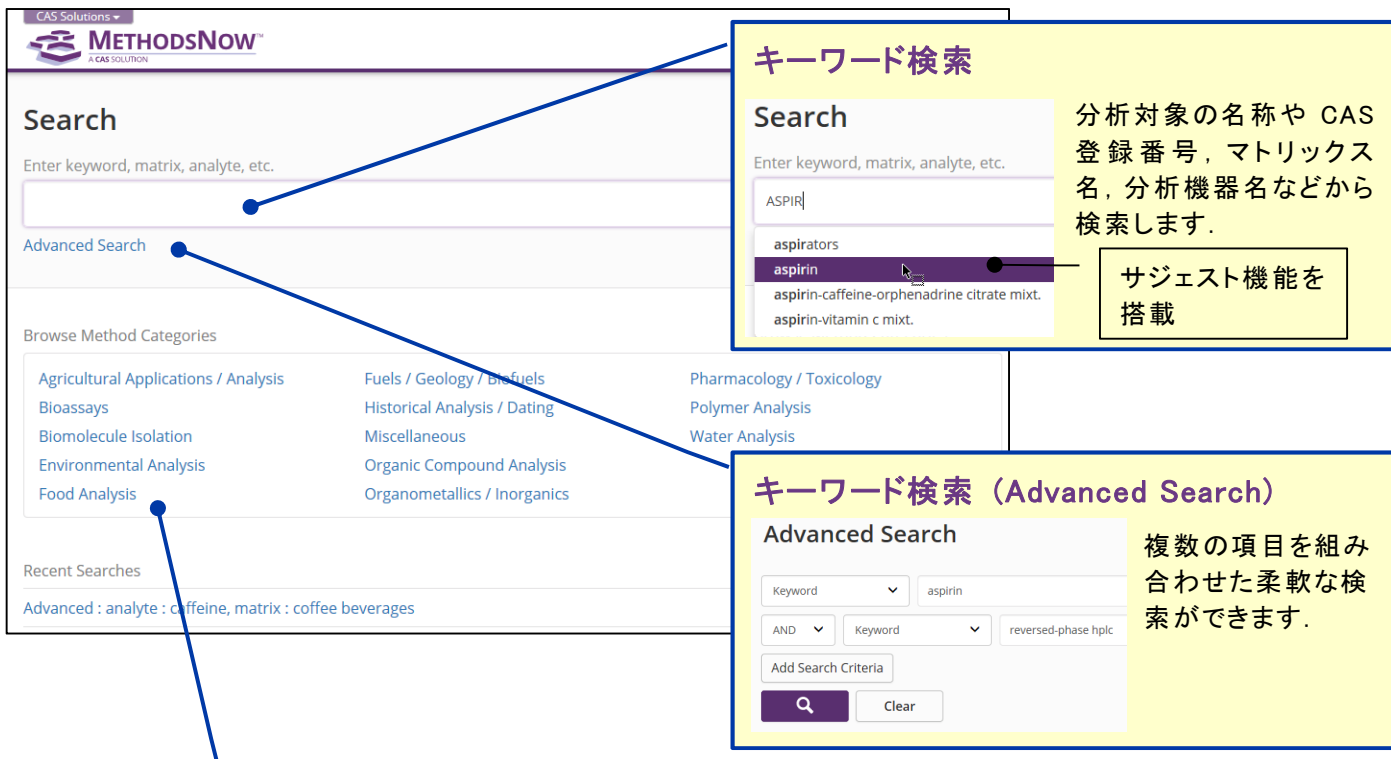


SciFinder から接続できます



### 2 検索の実行

検索方法は、キーワード検索とカテゴリ検索です。



**キーワード検索**

Search

Enter keyword, matrix, analyte, etc.

ASPIR|

- aspirators
- aspirin**
- aspirin-caffeine-orphenadrine citrate mixt.
- aspirin-vitamin c mixt.

サジェスト機能を搭載

**キーワード検索 (Advanced Search)**

Advanced Search

Keyword

AND

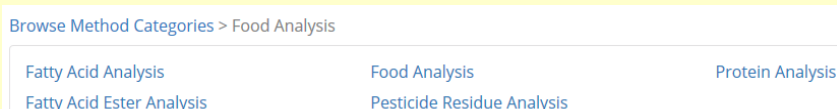
Add Search Criteria

🔍 Clear

複数の項目を組み合わせた柔軟な検索ができます。

#### カテゴリ検索

分析方法に関するカテゴリから検索できます。



各カテゴリをクリックするとサブカテゴリが表示されます。

### 3

## 絞り込みます

結果一覧画面で絞り込み機能を利用して、検索結果を絞ることができます。

**Results (42) 結果一覧画面**

Sort Relevance

④

関連度または発行年による並べ替えができます

分析対象, マトリックス, カテゴリー, 分析手法, 発行年で絞り込みができます (複数選択可)

View All をクリックすると各項目の全情報がアルファベット順またはレコード数の多い順に表示されます

Technique

- Acid-base titration (2)
- Adsorptive stripping voltammetry (1)
- Capacitively coupled contactless conductivity detectors (1)
- Capillary electrophoresis (1)
- Chromatographic resolution (1)
- Chronoamperometry (1)
- Colorimetry (1)
- Cyclic voltammetry (1)
- Densitometry (1)
- Derivative spectrophotometry (1)
- Fluorescence spectroscopy (1)
- Gas chromatography-mass spectrometry (1)
- HPLC (20)
- HPLC-tandem mass spectrometry (1)
- High-performance reversed-phase thin layer chromatography (1)
- High-performance thin layer chromatography (1)
- Photodiode array detectors (1)
- Photodiodes (5)
- Quadrupole tandem mass spectrometry (1)
- Reversed-phase liquid chromatography (2)
- Reversed-phase HPLC (42)
- Second derivative spectrophotometry (2)

View All

Full Text

Abstract

Technique

Alphabetically By Count

RP-HPLC analysis of aspirin and clopidogrel bisulfate

Material: Membrane filter (0.45 μ); Reversed-phase HPLC

Active Pharmaceutical Ingredient and Metabolite Analysis

HPLC system

RP-HPLC analysis of aspirin and clopidogrel bisulfate in combination

Anandakumar, K.; Ayyappan, T.; Raman, V.; Vetrichelvan, T.; Sankar, A. S. K.; Nagavalli, D.

Indian Journal of Pharmaceutical Sciences (2007), 69 (4), 597 - 599. Medknow Publications and Media Pvt. Ltd.

### 4

## 回答を詳細画面で表示します

③ でタイトルまたは View Details & Instructions をクリックすると、詳細が表示されます。

**Analysis of Aspirin in Pharmaceutical capsules by Reversed-phase HPLC**

CAS MN: 1-101-CAS-10841

Method Category: Active Pharmaceutical Ingredient and Metabolite Analysis

Technique: Reversed-phase HPLC

Equipment Used: HPLC system, class VP series, Shimadzu

Conditions: Chromatographic mobile phase-a mixture of acetonitrile, methanol and 20 mM phosphate buffer (adjust to pH 3 using ortho phosphoric acid) in the ratio of 50:7:43 v/v; Flow rate-1 ml/min; detection-240 nm; temperature-20 °C; injection volume-20 μl.

Instructions: Sample Preparation

1. Weigh twenty capsules of Combiplot (Sydmak Laboratories) each containing 75 mg of aspirin and 75 mg of clopidogrel bisulphate, empty the capsules and powder.
2. Weigh a quantity of powder equivalent to 50 mg of aspirin and transfer into a 50 ml volumetric flask.
3. Extract the drugs with the mobile phase.
4. Make up the extracts to the volume (50 ml) with mobile phase.
5. Mix the contents thoroughly and filter through 0.45 μm filter.

Validation: Linearity Range: 10-50 μg/ml

Recovery: 100.42%, Aspirin; 101.22%, Clopidogrel bisulfate

Accuracy: 100.17-101.33% (Recovery, 0.424% RSD) in 3.00-9.00 μg/ml spiked, Aspirin; 99.60-100.67% (Recovery, 0.387% RSD) in 3.00-9.00 μg/ml spiked, Clopidogrel bisulfate

Precision: 0.272% (RSD), Aspirin; 0.535% (RSD), Clopidogrel bisulfate

Retention Time: 2.40 min, Aspirin; 9.27 min, Clopidogrel bisulfate

物質情報

Aspirin

Clopidogrel bisulfate

Pharmaceutical capsules

Membrane filter (0.45 μ)

Reverse phase phenomenon C<sub>18</sub> column (250 mm x 4.6 mm i.d, particle size 5 μ)

収録源

RP-HPLC analysis of aspirin and clopidogrel bisulphate in combination

Anandakumar, K.; Ayyappan, T.; Raman, V.; Vetrichelvan, T.; Sankar, A. S. K.; Nagavalli, D.

Indian Journal of Pharmaceutical Sciences (2007), 69 (4), 597 - 599. Medknow Publications and Media Pvt. Ltd.

CODEN: IJSDW | ISSN: 0250474X | DOI: 10.4103/0250-474x.36958

Full Text

Abstract

A reverse phase high performance liquid chromatog. method was developed for the simultaneous estimation of aspirin and clopidogrel bisulfate in formulation. The separation was achieved by octadecyl column (C<sub>18</sub>) and acetonitrile:MeOH:20 mM phosphate buffer (50:7:43 volume/volume) as eluent, at a flow rate of 1 mL/min. Detection was carried out at 240 nm. Quantitation was

タイトル

分析カテゴリ

分析手法

使用機器

分析条件

分析手順

わかりやすい step-by-step 形式

バリデーション

分析結果の確認もできます

## 5 回答を保存・ダウンロードします

結果一覧画面または詳細画面で、保存・ダウンロードができます。

The screenshot shows two parts of the interface. The top part is the 'Results (42)' page, labeled '結果一覧画面'. It features a 'Sort Relevance' dropdown, a '2 selected' indicator, and buttons for download, star, and 'Compare (0/3)'. A callout box points to the download button, stating: 'ダウンロード PDF または XLS 形式でダウンロードできます'. Another callout points to the star button, stating: 'サーバーへの保存'. The bottom part is the 'Method Detail (1 of 42)' page, labeled '詳細画面', showing the title 'Analysis of Aspirin in Pharmaceutical capsules by Reversed-phase HPLC'. A callout box points to the star button in the top right corner, stating: 'サーバーからの回答の呼び出しは、画面右上にある ☆ をクリックします。'

## 6 検索結果の比較

③ の結果一覧画面で選んだ最大 3 件のレコードを表形式で比較することができます。

The screenshot shows the 'Results (42)' page with a red dashed box around the 'Compare (0/3)' button. A yellow arrow points to a second screenshot where the button is now 'Compare (1/3)'. A callout box explains: 'クリックすると「Compare」がアクティブになります。Compare から除きたい場合は該当レコードにおいて、「Remove From Compare」をクリックします'.

Compare (3/3) をクリックすると比較表が表示されます。

The screenshot shows the 'Compare Methods' table with three columns. A callout box points to the 'x' icon in the first column, stating: 'をクリックすると、表から削除されます'. Another callout points to the download button in the top right corner, stating: 'ダウンロード 表を PDF または XML 形式でダウンロードできます。'

	1	2	3
Title	Analysis of Aspirin in Pharmaceutical capsules by Reversed-phase HPLC	Analysis of Aspirin in Tablets by Reversed-phase HPLC	Analysis of Aspirin in Pharmaceutical tablets by Reversed-phase HPLC
CAS Method Number	1-101-CAS-10841	1-101-CAS-22441	1-101-CAS-26435
Method Category	Active Pharmaceutical Ingredient and Metabolite Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis
Technique	Reversed-phase HPLC	Reversed-phase HPLC	Liquid chromatography detectors; Reversed-phase HPLC
Analyte	Aspirin; Clopidogrel bisulfate	2-[2-(Acetyloxy)-6,7-dihydrothieno [3,2-c]pyridin-5(4H)-yl]-1-cyclopropyl-2-(2-fluorophenyl) View All	Aspirin; Simvastatin

- SciFinder の反応検索結果画面より, MethodsNow を表示します.

1. One-step to get 5-azidomethyl-2'-deoxyuridine from 5-hydroxymethyl-2'-deoxyuridine and detection of it through click reaction  
 Quick View Other Sources  
**1 Reaction**  
 3 Steps Hover over any structure for more options.

**Overview**

**METHODSNOW™**

**Procedure**

1. Add <sup>13</sup>C-Deoxyuridine (5.25 g, 23.0 mmol) and
2. Dissolve the mixture in 80 mL 0.5 mol/L trieth

[View more...](#)

**Available Experimental Data**

<sup>1</sup>H NMR, <sup>13</sup>C NMR, HRMS, State

[View with MethodsNow](#)

クリックすると, MethodsNow 画面が開きます

**MethodsNow**

One-step to get 5-azidomethyl-2'-deoxyuridine from 5-hydroxymethyl-2'-deoxyuridine and detection of it through click reaction  
 By Xu, Xiaowei; Yan, Shengyong; Hu, Jianlin; Guo, Pu; Wei, Lai; Weng, Xiaocheng; Zhou, Xiang  
 From Tetrahedron, 69(46), 9870-9874; 2013  
 Published by Elsevier Ltd.

Reaction Steps **1** 2 3

反応ステップごとに情報がまとめられています

<b>Products</b>	Thymidine, α-[4-(2-oxo-2H-1-benzopyran-7-yl)-1H-1,2,3-triazol-1-yl]-, 96%, CAS RN: 1469887-73-7
<b>Reactants</b>	Thymidine, α-azido-, CAS RN: 59090-48-1 2H-1-Benzopyran-2-one, 7-ethynyl-, CAS RN: 270088-04-5
<b>Reagents</b>	Sodium ascorbate, CAS RN: 134-03-2
<b>Catalysts</b>	Copper sulfate, CAS RN: 7758-98-7
<b>Solvents</b>	Water, CAS RN: 7732-18-5 Dimethylformamide, CAS RN: 68-12-2
<b>Procedure</b>	<ol style="list-style-type: none"> <li>1. Dissolve 5-amdU (28.3 mg, 0.1 mmol) in 5 mL H<sub>2</sub>O and 5 mL DMF into the flask.</li> <li>2. Add catalytic amount of copper sulfate pentahydrate and sodium ascorbate into the mixture.</li> <li>3. At last, pour CA (17 mg, 0.1 mmol) into mixture.</li> <li>4. Stir the mixture at room temperature overnight.</li> <li>5. Remove the solvents in vacuo.</li> <li>6. Wash the residue with water and methanol.</li> <li>7. Recrystallize the residue from methanol.</li> </ol>
<b>Scale</b>	milligram
<b><sup>1</sup>H NMR</b>	<sup>1</sup> H NMR (300 MHz, DMSO-d <sub>6</sub> ) δ (ppm): 11.62 (s, 1H), 8.68 (s, 1H), 8.23 (s, 1H), 8.07 (d, J = 9.6 Hz, 1H),
<b>State</b>	White solid.
<b>CAS Method Number</b>	3-287-CAS-85540

実験手順が見やすい **step-by-step** 形式

生成物の各種スペクトルデータも表示されます

PDF または XLS 形式でダウンロードできます

[Print/Export](#) [Close](#)