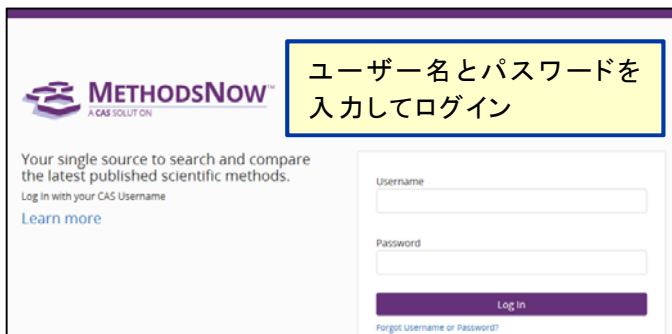


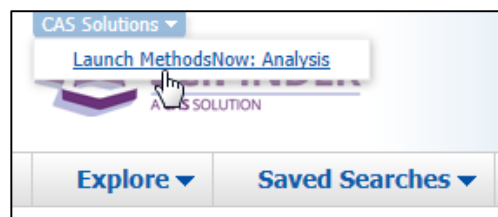
MethodsNow Analysis

分析手法を調べるツール

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

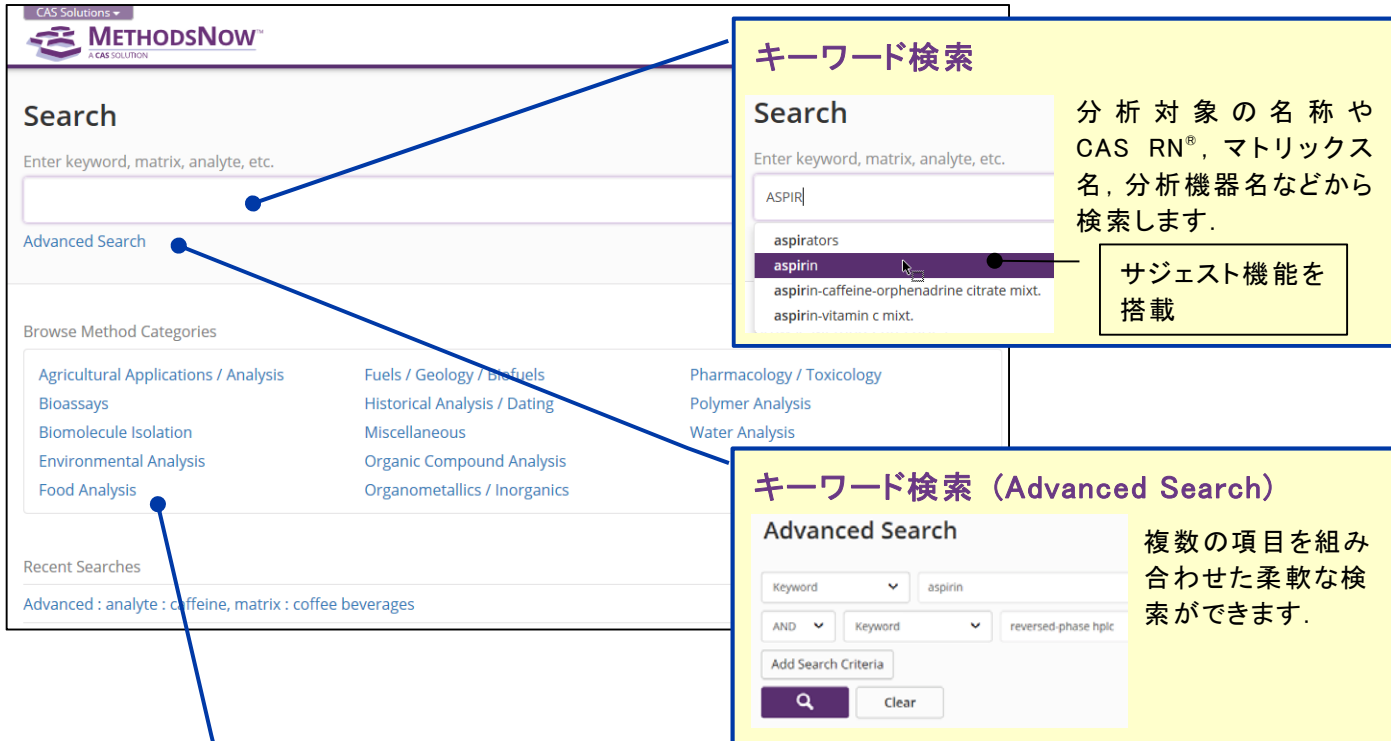


SciFinder から接続できます



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.

分析対象の名称やCAS RN®, マトリックス名, 分析機器名などから検索します。

サジェスト機能を搭載

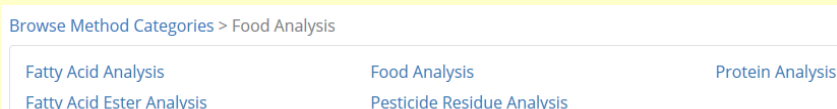
キーワード検索 (Advanced Search)

Advanced Search
Keyword: aspirin
AND Keyword: reversed-phase hplc
Add Search Criteria
[Search] [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 ~

View Details & Instructions Add to Compare

Analyte: Aspirin; Clopidogrel bisulfate
 Matrix: Pharmaceutical capsules
 Other Materials: Material: Membrane filter (0.45 μ); Reversed-phase HPLC column (C₁₈, 250 mm x 4.6 mm i.d., particle size 5 μ)
 Method Category: Active Pharmaceutical Ingredient and Metabolite Analysis
 Technique: Reversed-phase HPLC
 Equipment Used: HPLC system
 Source: RP-HPLC analysis of aspirin and clopidogrel bisulfate in combination. Anandakumar, K.; Ayyappan, T.; Raman, V. Raghuv. Vetrichelvan, T.; Sankar, A. S. K.; Nagavalli, D. Indian Journal of Pharmaceutical Sciences (2007), 69 (4), 597 - 599. Medknow Publications and Media Pvt. Ltd.

Technique

Alphabetically By Count

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

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

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

Materials: Aspirin, Clopidogrel bisulfate, Pharmaceutical capsules, Membrane filter (0.45 μ), Reverse phase phenomex C₁₈ column (250 mm x 4.6 mm i.d., particle size 5 μ)

Source: RP-HPLC analysis of aspirin and clopidogrel bisulfate in combination. Anandakumar, K.; Ayyappan, T.; Raman, V. Raghuv. 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

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-1ml/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 the 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

わかりやすい step-by-step 形式

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。

Results (42) 結果一覧画面

2 selected

Sort Relevance ▾

Download (📄) ★ Compare (0/3)

Analysis of Aspirin in Pharmaceutical capsules by Reversed-phase HPLC

Method Detail (1 of 42) 詳細画面

Analysis of Aspirin in Pharmaceutical capsules by Reversed-phase HPLC

Callouts:

- ダウンロード
PDF または XLS 形式でダウンロードできます
- サーバーへの保存
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。

Results (42) 結果一覧画面

Sort Relevance ▾

Compare (0/3)

Analysis of Aspirin in Pharmaceutical capsules by Reversed-phase HPLC
CAS MN: 1-101-CAS-10841
View Details & Instructions

Compare Add to Compare

→

Sort Relevance ▾

Compare (1/3)

Reversed-phase HPLC

Remove from Compare

Callout: 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。

Compare Methods

Expand All | Collapse All

| | 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)ethanone View All ▾ | Aspirin; Simvastatin |

Callouts:

- 📄 をクリックすると、表から削除されます
- 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。

- 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 ¹³C-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

¹H NMR, ¹³C NMR, HRMS, State

[View with MethodsNow](#)

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

| | |
|--------------------------|---|
| Products | Thymidine, α-[4-(2-oxo-2H-1-benzopyran-7-yl)-1H-1,2,3-triazol-1-yl]-, 96%, CAS RN: 1469887-73-7 |
| Reactants | Thymidine, α-azido-, CAS RN: 59090-48-1 2H-1-Benzopyran-2-one, 7-ethynyl-, CAS RN: 270088-04-5 |
| Reagents | Sodium ascorbate, CAS RN: 134-03-2 |
| Catalysts | Copper sulfate, CAS RN: 7758-98-7 |
| Solvents | Water, CAS RN: 7732-18-5 Dimethylformamide, CAS RN: 68-12-2 |
| Procedure | <ol style="list-style-type: none"> 1. Dissolve 5-amdU (28.3 mg, 0.1 mmol) in 5 mL H₂O and 5 mL DMF into the flask. 2. Add catalytic amount of copper sulfate pentahydrate and sodium ascorbate into the mixture. 3. At last, pour CA (17 mg, 0.1 mmol) into mixture. 4. Stir the mixture at room temperature overnight. 5. Remove the solvents in vacuo. 6. Wash the residue with water and methanol. 7. Recrystallize the residue from methanol. |
| Scale | milligram |
| ¹H NMR | ¹ H NMR (300 MHz, DMSO-d ₆) δ (ppm): 11.62 (s, 1H), 8.68 (s, 1H), 8.23 (s, 1H), 8.07 (d, J = 9.6 Hz, 1H), |
| State | White solid. |
| CAS Method Number | 3-287-CAS-85540 |

PDF または XLS 形式でダウンロードできます

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

クリックすると, MethodsNow 画面が開きます

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