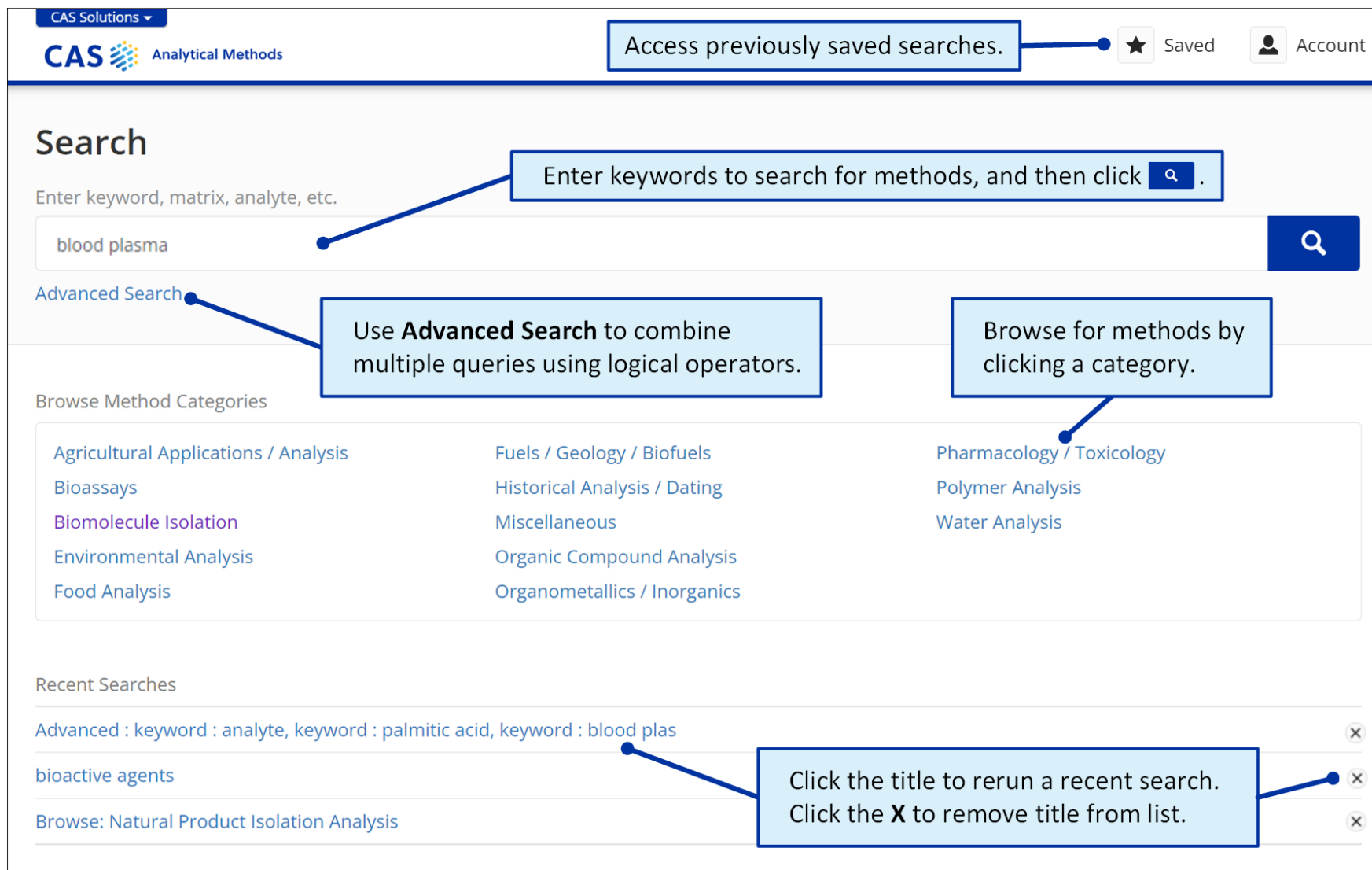


Search



The screenshot displays the CAS Analytical Methods Search interface. At the top, the header includes the CAS logo, 'Analytical Methods', and a 'CAS Solutions' dropdown. On the right, there are links for 'Access previously saved searches.', 'Saved' (with a star icon), and 'Account' (with a user icon).

The main section is titled 'Search'. Below the title is a search bar with the placeholder text 'Enter keyword, matrix, analyte, etc.' and a search button (magnifying glass icon). The search bar contains the text 'blood plasma'. A callout points to the search bar with the text: 'Enter keywords to search for methods, and then click [search button]'.

Below the search bar is a link for 'Advanced Search'. A callout points to this link with the text: 'Use **Advanced Search** to combine multiple queries using logical operators.'

Below 'Advanced Search' is a section titled 'Browse Method Categories'. It contains three columns of category links. A callout points to the 'Pharmacology / Toxicology' link with the text: 'Browse for methods by clicking a category.'

Below the categories is a section titled 'Recent Searches'. It lists three recent searches: 'Advanced : keyword : analyte, keyword : palmitic acid, keyword : blood plas', 'bioactive agents', and 'Browse: Natural Product Isolation Analysis'. Each search entry has a close button (X icon) to its right. A callout points to the first search entry with the text: 'Click the title to rerun a recent search. Click the **X** to remove title from list.'

Advanced Search

Select the search field: Keyword, Analyte, Matrix, Method Category, Technique, CAS Method Number, or Publication Name.

Enter the query for the search field.

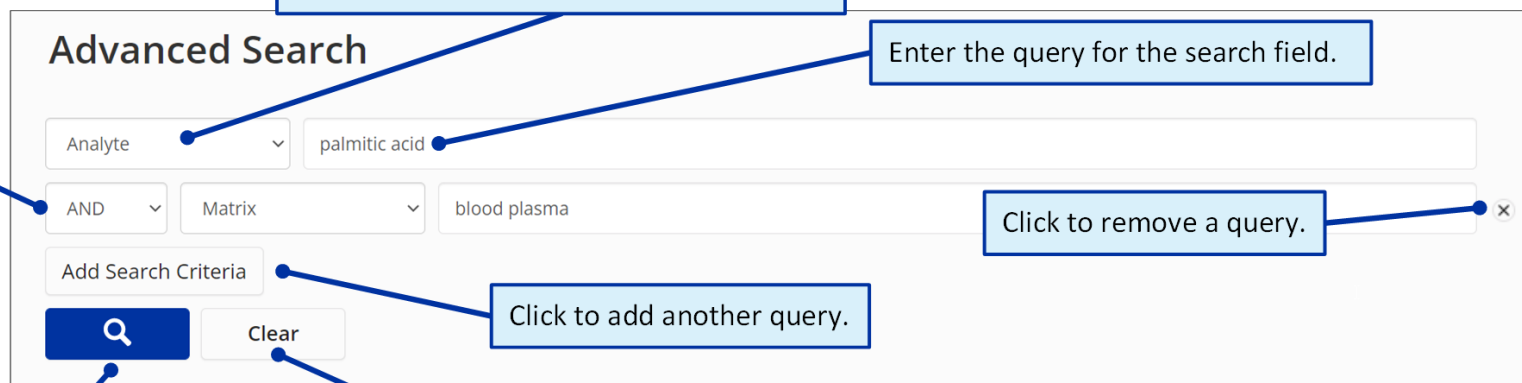
Select the logical operator: AND, OR, NOT.

Click to remove a query.

Click to add another query.

Click to execute search.

Click to reset form.



The screenshot shows the 'Advanced Search' form. At the top, a dropdown menu is set to 'Analyte'. Below it, a text input field contains 'palmitic acid'. To the left of this field is a dropdown menu set to 'AND'. Below the 'AND' dropdown is another dropdown menu set to 'Matrix'. To the right of the 'Matrix' dropdown is a text input field containing 'blood plasma'. To the right of the 'blood plasma' field is a small 'x' icon. Below the 'AND' and 'Matrix' dropdowns is a button labeled 'Add Search Criteria'. Below the 'Add Search Criteria' button is a blue button with a magnifying glass icon and a white button labeled 'Clear'. The form is titled 'Advanced Search'.

Results

The screenshot displays the 'Results' page for CAS Analytical Methods. The interface includes a left sidebar for filtering, a main results list, and a top navigation bar. Callouts provide instructions on how to use these features:

- Select individual methods to export or save, or check box at top to select all methods on page.** Points to the selection checkboxes in the results list.
- Save methods.** Points to the download icon (floppy disk) in the top right.
- Sort methods by Relevance or Publication Year.** Points to the 'Sort Relevance' dropdown menu.
- Download methods to PDF or XLS format.** Points to the download icon (floppy disk) in the top right.
- Click method title or View Details & Instructions to view method details.** Points to the 'View Details & Instructions' button for the first method.
- Click Compare to view selected methods for comparison.** Points to the 'Compare (2/3)' button in the top right.
- Click Add to Compare to select methods for comparison.** Points to the 'Add to Compare' button for the first method.
- Select boxes to filter methods by data values.** Points to the filter checkboxes in the left sidebar.
- Remove a selected comparison method.** Points to the 'Remove from Compare' button at the bottom right.

Results (7)

1 selected

☒ **Analysis of Hyperoside in Blood plasma by HPLC**
CAS MN: 1-101-CAS-135904

[View Details & Instructions](#)

Analyte: Hyperoside
Matrix: Blood plasma
Other Materials: Reagent: Acetic acid; Methanol
Equipment Used: column (Diamonsil C18, 4.6 mm X 150 mm, i.d., 5 µm); 0.45 µm membrane
Category: Liquid chromatographic UV detectors; HPLC; Extraction
Technique: High performance liquid chromatography system; Milli-Q Biocel Ultrapure Water System
Equipment Used: LC determination and pharmacokinetic study of hyperoside in rat plasma after intravenous administration
Liu, Xun; Wang, Dong; Wang, Si-Yuan; Meng, Xian-Sheng; Zhang, Wen-jie; Ying, Xi-Xiang; Kang, Ting-Guo
Yakugaku Zasshi (2010), 130 (6), 873-879. Pharmaceutical Society of Japan
[Full Text](#)
[Abstract](#)

☐ **Analysis of Mexiletine in Blood plasma by HPLC**
CAS MN: 1-101-CAS-156566

[View Details & Instructions](#)

Analyte: Mexiletine

Method Detail

Method Detail (1 of 38) ← Prev Next →

Analysis of (±)-Pentobarbital in Blood plasma by Gas chromatography-mass spectrometry

CAS MN: 1-101-CAS-168942

Method Category: Active Pharmaceutical Ingredient and Metabolite Analysis
Technique: Gas chromatography-mass spectrometry

[Download method to PDF or XLS format.](#)  

[Save method.](#)

[View structure image.](#)

Materials	Role	Image	CAS RN
(±)-Pentobarbital	analyte	View Structure	76-74-4
(±)-Thiopental	analyte	View Structure	76-75-5
Propofol	analyte	View Structure	2078-54-8
2,4,6-(1H,3H,5H)-Pyrimidinetrione, 1-methyl-5-(1-methyl-2-propenyl)-			151-83-7
Diazepam			439-14-5
Phenobarbital	analyte	View Structure	50-06-6
Midazolam	analyte	View Structure	59467-70-8
Nordiazepam	analyte	View Structure	1088-11-5
Blood plasma	matrix		
GC capillary column (12 m x 0.2 mm ID, 330-nm film thickness)	material		

Source

Fast, Simple, and Validated Gas Chromatographic-Mass Spectrometric Assay for Quantification of Drugs Relevant to Diagnosis of Brain Death in Human **Blood Plasma** Samples

Peters, Frank T.; Jung, Julia; Kraemer, Thomas; Maurer, Hans H.

Therapeutic Drug Monitoring (2005), 27 (3), 334 - 344. Lippincott Williams & Wilkins

CODEN: TDMODV | ISSN: 01634356 | DOI: 10.1097/01.ftd.0000158079.53577.46

[Full Text ▾](#)

[Abstract ^](#)

In addition to total anamnesis, one of the important aspects in diagnosis of brain death is the exclusion of effective **plasma** concentrations of drugs that

Compare Methods

Compare Methods

Click X to remove method from the table.

Download the comparison table.

Expand All data items on table or Collapse All.

Expand All Collapse All

	1 	2 	3 
Title	Analysis of Hyperoside in Blood plasma by HPLC	Analysis of Carbamazepine in Blood plasma by HPLC	Analysis of 5-Fluorouracil in Blood plasma by Liquid-liquid extraction
CAS Method Number	1-101-CAS-135904	1-101-CAS-184445	1-101-CAS-158452
Method Category	Active Pharmaceutical Ingredient and Metabolite Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis
Technique	Liquid chromatographic UV detectors; HPLC; Extraction	HPLC; Solid phase extraction	HPLC; Liquid-liquid extraction
Analyte	Hyperoside	<i>trans</i> -10,11-Dihydroxy-10,11-dihydrocarbamazepine; Carbamazepine 10,11-epoxide; View All 	Uracil; 5-Fluorouracil; Dihydrouracil; Antitumor agents
Matrix	Blood plasma	Blood plasma	Blood plasma
Other Materials	Acetic acid; Methanol; Analytical column (Diamonsil C18, 4.6 mm X 150 mm, i.d., 5 µm); Guard column (KR View All 	0.45 µm regenerated cellulose membrane filter; analytical column (250 mm x 4.6 mm; 5 µm); cartridges View All 	RP-18 X-Terra'column (5 µm particles, 25 cm)
Equipment Used	High performance liquid chromatography system, Shimadzu, Kyoto, Japan; Milli-Q Biocel Ultrapure View All 	HPLC system, 1200, Agilent Technologies , Wilmington, DE, USA; Vacuum Manifold, 12-port, Supelco, View All 	HPLC system, 1100, Agilent