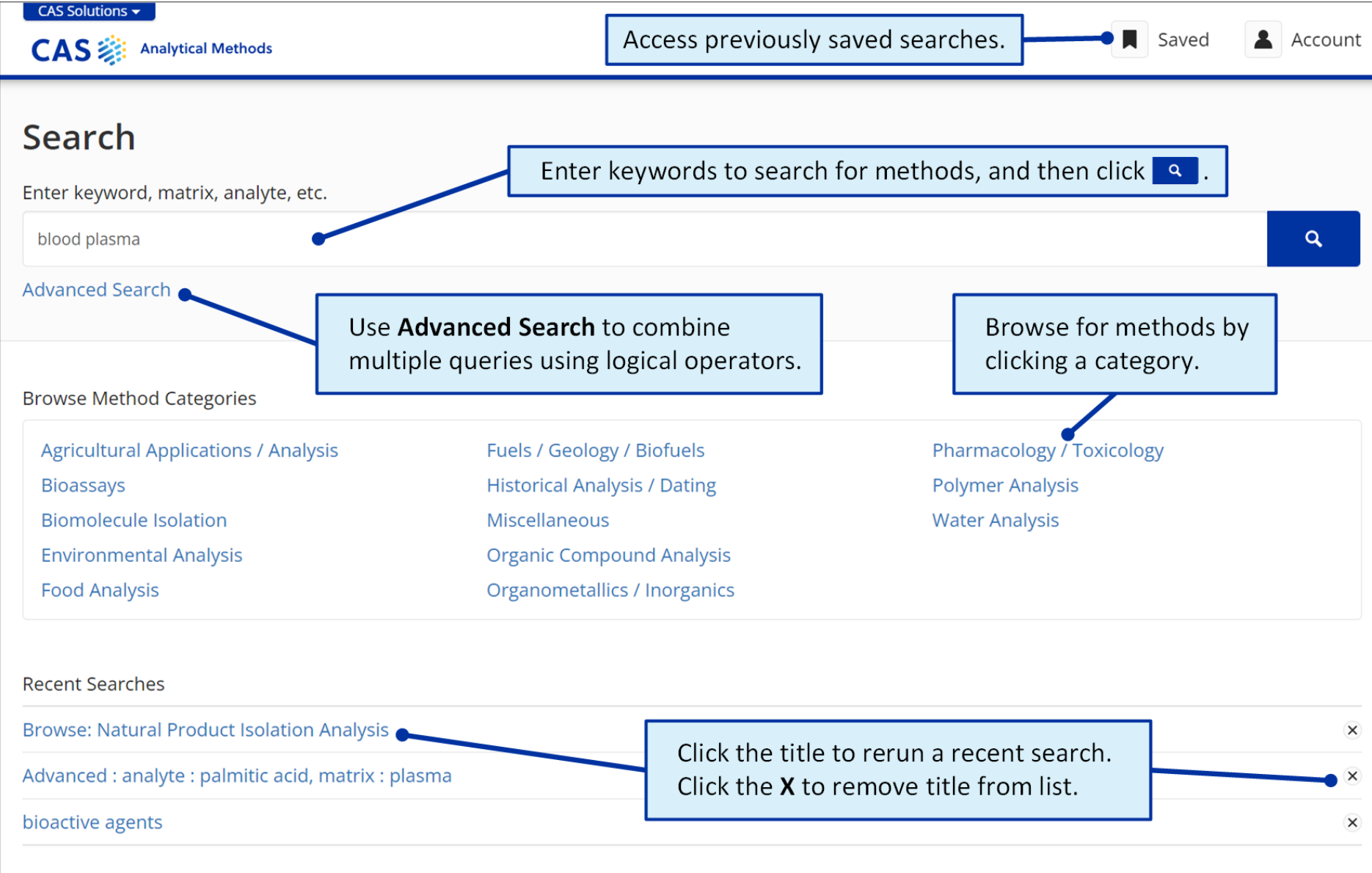


Search



The screenshot displays the CAS Analytical Methods search interface. At the top, the 'CAS Solutions' dropdown and the 'CAS Analytical Methods' logo are visible. A callout points to the 'Access previously saved searches.' link, which is accompanied by 'Saved' and 'Account' icons. The main search area features a text input field with 'blood plasma' and a search button. A callout explains that users should 'Enter keywords to search for methods, and then click [search button]'. Below the search bar, the 'Advanced Search' link is highlighted with a callout stating: 'Use **Advanced Search** to combine multiple queries using logical operators.' The 'Browse Method Categories' section lists various categories such as 'Agricultural Applications / Analysis', 'Bioassays', 'Biomolecule Isolation', 'Environmental Analysis', 'Food Analysis', 'Fuels / Geology / Biofuels', 'Historical Analysis / Dating', 'Miscellaneous', 'Organic Compound Analysis', 'Organometallics / Inorganics', 'Pharmacology / Toxicology', 'Polymer Analysis', and 'Water Analysis'. A callout points to this section, stating: 'Browse for methods by clicking a category.' The 'Recent Searches' section lists three previous searches: 'Browse: Natural Product Isolation Analysis', 'Advanced : analyte : palmitic acid, matrix : plasma', and 'bioactive agents'. A callout explains: 'Click the title to rerun a recent search. Click the **X** to remove title from list.'

CAS Solutions ▾

CAS Analytical Methods

Access previously saved searches. Saved Account

Search

Enter keyword, matrix, analyte, etc.

blood plasma

Advanced Search

Use **Advanced Search** to combine multiple queries using logical operators.

Browse for methods by clicking a category.

Browse Method Categories

- Agricultural Applications / Analysis
- Bioassays
- Biomolecule Isolation
- Environmental Analysis
- Food Analysis
- Fuels / Geology / Biofuels
- Historical Analysis / Dating
- Miscellaneous
- Organic Compound Analysis
- Organometallics / Inorganics
- Pharmacology / Toxicology
- Polymer Analysis
- Water Analysis

Recent Searches

- Browse: Natural Product Isolation Analysis
- Advanced : analyte : palmitic acid, matrix : plasma
- bioactive agents

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.

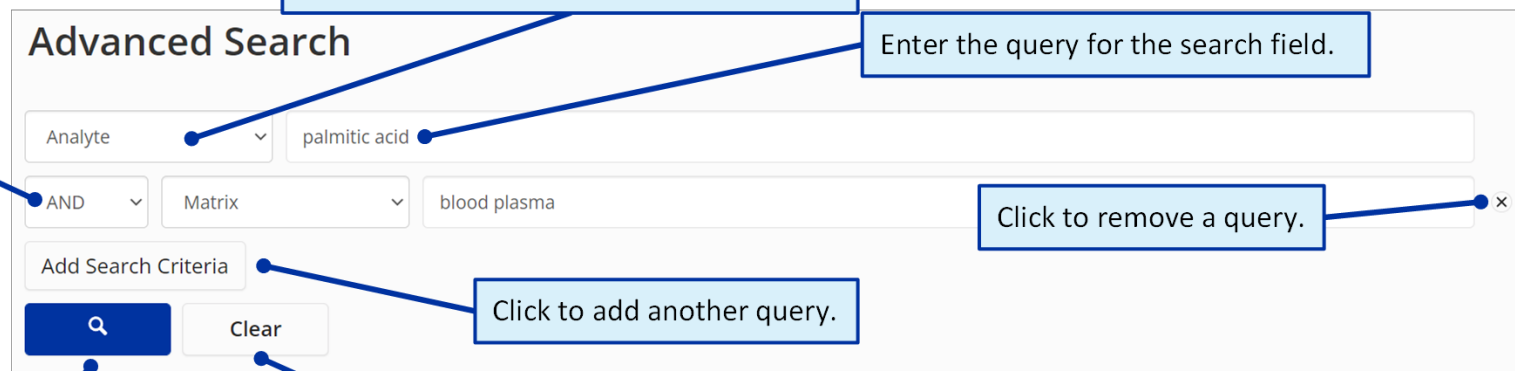
Select the logical operator: AND, OR, NOT.

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. It includes a dropdown menu for 'Analyte' with 'palmitic acid' entered, a text input field for the query, a dropdown for 'AND' as the logical operator, a dropdown for 'Matrix' with 'blood plasma' entered, and a button to 'Add Search Criteria'. At the bottom are 'Search' and 'Clear' buttons. Callouts point to these elements: 'Select the search field: Keyword, Analyte, Matrix, Method Category, Technique, CAS Method Number, or Publication Name.' points to the 'Analyte' dropdown; 'Enter the query for the search field.' points to the query input field; 'Select the logical operator: AND, OR, NOT.' points to the 'AND' dropdown; 'Click to remove a query.' points to the 'x' icon on the 'blood plasma' entry; 'Click to add another query.' points to the 'Add Search Criteria' button; 'Click to execute search.' points to the 'Search' button; and 'Click to reset form.' points to the 'Clear' button.

Results

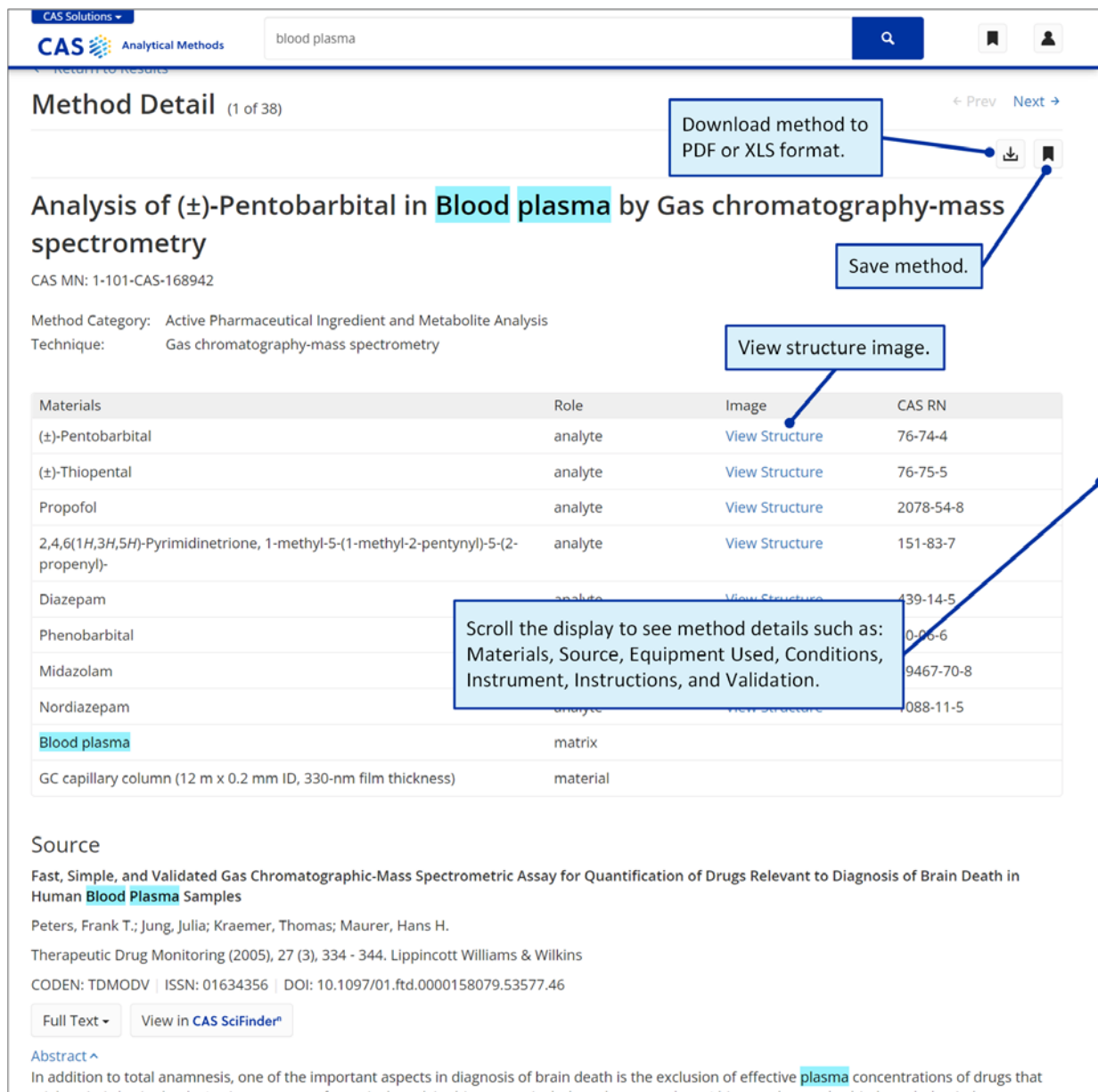
The screenshot displays the 'Results' page for CAS Analytical Methods, showing a list of methods with various filters and action buttons. Callouts provide instructions on how to use these features:

- Select individual methods to export or save, or check box at top to select all methods on page.** (Points to the '2 selected' indicator and the checkbox for the first method.)
- Save methods.** (Points to the 'Save' button.)
- 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.)
- Click **Compare** to view selected methods for comparison.** (Points to the 'Compare (2/3)' button.)
- Click **Add to Compare** to select methods for comparison.** (Points to the 'Add to Compare' button.)
- Click method title or **View Details & Instructions** to view method details.** (Points to the 'View Details & Instructions' button for the first method.)
- Select boxes to filter methods by data values.** (Points to the filter checkboxes on the left sidebar.)
- Access full-text options.** (Points to the 'Full Text' dropdown menu.)
- View the source's **Reference Detail** page in CAS SciFinder-n.** (Points to the 'View in CAS SciFinder' button.)
- Remove a selected comparison method.** (Points to the 'Remove from Compare' button.)

The main content area shows two methods:

- Analysis of Hyperoside in Blood plasma by HPLC**
CAS MN: 1-101-CAS-135904
Analyte: Hyperoside
Matrix: Blood plasma
Other Materials: Reagent: Acetic acid; Methanol
Technique: Liquid chromatographic UV detectors; HPLC; Extraction
Equipment Used: High performance liquid chromatography system; Milli-Q Biocel Ultrapure Water System
Source: LC determination and pharmacokinetic study of hyperoside in rat plasma after intravenous administration
Liu, Xun; Wang, Dong; Wang, Si-Yuan; Meng, Xia Kang, Ting-Guo
Yakugaku Zasshi (2010), 130 (6), 872-879. Pharm
- Analysis of Mexiletine in**
CAS MN: 1-101-CAS-156566
Analyte: Mexiletine
Matrix: Urine; Blood plasma

Method Detail



CAS Solutions ▾
CAS Analytical Methods

blood plasma

Method Detail (1 of 38)

← Prev Next →

Download method to PDF or XLS format.

Save method.

View structure image.

Scroll the display to see method details such as: Materials, Source, Equipment Used, Conditions, Instrument, Instructions, and Validation.

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

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-(1 <i>H</i> ,3 <i>H</i> ,5 <i>H</i>)-Pyrimidinetrione, 1-methyl-5-(1-methyl-2-pentynyl)-5-(2-propenyl)-	analyte	View Structure	151-83-7
Diazepam	analyte	View Structure	139-14-5
Phenobarbital	analyte	View Structure	0-06-6
Midazolam	analyte	View Structure	9467-70-8
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 ▾ View in CAS SciFinder®

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 might mimic brain death. This concise methodical work in this context includes relevant aspects (thiopental, pentobarbital, methohexital).

Compare Methods









Compare Methods

Click X to remove method from the table.

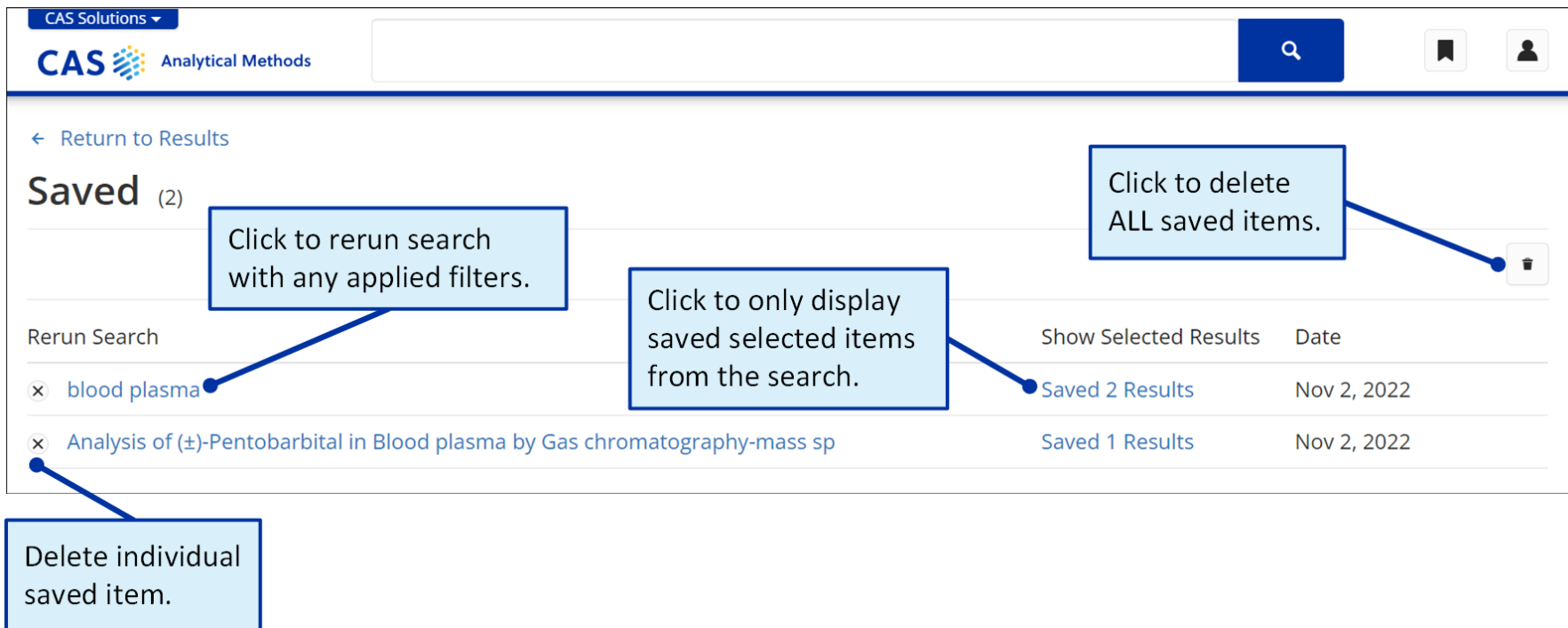
Download the comparison table.

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

Saved Page



The screenshot shows the 'Saved' page in the CAS Analytical Methods interface. The page header includes 'CAS Solutions' and 'CAS Analytical Methods' with a search bar and user profile icon. Below the header, there is a 'Return to Results' link and a 'Saved (2)' section. The 'Saved' section contains a table with two rows of saved items. Callouts provide instructions for various actions:

- Click to rerun search with any applied filters.** Points to the 'Rerun Search' button.
- Click to only display saved selected items from the search.** Points to the 'Show Selected Results' button.
- Click to delete ALL saved items.** Points to the trash icon in the top right corner.
- Delete individual saved item.** Points to the 'x' icon next to the first saved item.

Rerun Search	Show Selected Results	Date
<input checked="" type="checkbox"/> blood plasma	Saved 2 Results	Nov 2, 2022
<input checked="" type="checkbox"/> Analysis of (±)-Pentobarbital in Blood plasma by Gas chromatography-mass sp	Saved 1 Results	Nov 2, 2022