

Biochemical analysis

Substances Search

Substance name search

You can search substances by placing one or more substance names or identifiers into the query box. You can also draw or edit a structure. Below are name search option examples.

- Arginine** Finds Arginine record
- 74-79-3** Finds Streptomycin record, using CAS Registry Number® as identifier
- Arginine** Finds all names that start with the stem Arginine

Search by Substance Name, CAS RN, Patent Number, PubMed ID, AN, CAN, and DOI. Enter chemical name query.

Click to draw new structure. Click query structure to edit.

Add Advanced Search Field. Add advanced search fields.

Search CAS Lexicon. Check to perform Markush search.

CAS Draw editor

You can define structure and reaction queries using the CAS Draw structure editor.

Import structure from .cxf or .mol file. Enter CAS Registry Number, SMILES, or InChI to create structure.

Draw or change atoms or bonds. Draw atoms and bonds. Pick element symbol from periodic table. Variable selection. Define own variables (R Groups). Add attachment point to fragment. Add positive charge. Add negative charge. Repeating groups. Carbon chain tool. Define variable point of attachment at ring. Lock rings. Lock atoms. Rotate/Flip fragment. Draw bonds and rings. Bond mapping. Draw reaction arrow.

ChemDraw allows to search structures in SciFinder by using the SciFinder add-in from the menu or icon. The SciFinder history will show 'Searched from ChemDraw'.

Substances search result

Substances search results are displayed in an intuitive interface where you will see the most relevant results for your search.

Get related references, reactions or suppliers for all or selected substances.

Click CAS Registry Number to open details.

Click on structure to open floyd window.

Retrieve data related to substance.

Open editor with this structure.

Download structure, image or copy SMILES.

CAS Analytical Methods

Methods Searching

You can search for different analytical methods from various scientific domains. The search query allow also to search for instruments

Search for keywords, matrices, analyte, matrix, instrument etc.

Explore Methods. Search methods using criteria like method categories and subcategories.

Advanced Search. Search methods using criteria like keywords, analytes, matrices and more.

Combine search terms as keyword, analyte, matrix, etc.

Explore Methods. Search methods using criteria like method categories and subcategories.

Category: Agricultural, Bioassay, Biomolecule, Environmental, Food Analysis, Fuels / Geology / Historical Analysis / Miscellaneous, Organic Compound, Organometallics / Polymer Analysis, Water Analysis.

Methods search results

The results can be filtered by analytes, matrix, method category, technique and publication year. A source may have multiple methods indexed. The short methods description allows to quickly investigate if the method fits your needs

Unique filter options. Filter By: Analyte, Matrix, Method Category.

Hyperlink to details.

Expand abstract. Go to full text webpage.

Download methods. Save document. Compare methods.

Group and Download search results

You can download multiple methods in pdf or excel format. The selections are abstract and details. Details will download the step-by step procedures for all selected methods.

2 Selected 104 Results. Group methods. Download options: PDF, XLS.

Publication title: Analysis of Antibodies and Immunoglobulins in Blood serum by Immunoblotting.

Interface and References Search

Search interface

CAS SciFinder features a streamlined search interface.

Access CAS Formulas® and CAS Analytical Methods™. Click the CAS logo to return to the main search page. Access alerts. Access account settings. Combine saved sets. Download. Save and Alert. Add to Project. Share Results. Copy Search to Clipboard.

Enter the query. Search specific fields. Access user-specific content recommendations. Access projects, saved items, history, downloads and submit feedback. Execute the search or press ENTER. Submit Feedback.

References search result

Performing a references search provides you with access to a full result set in an easy-to-use interface where:

- References are default sorted by relevance with customizable sorting options.
- You can focus your answer set further using filters.
- You can save searches, send a link of the results, set up alerts, or add results to a project list.
- You can quickly access full details for any of the references displayed.

View indexed substances. View indexed reactions. Download answers. Combine current with saved set. Sort answers. Clear all filters.

Filter Behavior. Filter by: Exclude. Excluding: Search Within Results: polyclonal. Select Filter by or Exclude. Click title to open reference details. Change how answers are displayed. Add to project. Full Abstract. Enter a query. Search any text within this answer set. Retrieve substance, reaction, or citation data for this reference. Access full-text options.

Boolean operators. You can use logical operators to create precise text queries. Ex: electrophoresis and (immunoglobulin* or interferon). AND Both terms are present within the document. OR Either one or both terms are present (connect synonyms with OR). NOT Excludes documents from the set containing the word(s) after NOT. Ex: albumin not rat. Wildcards allow for more comprehensive results. Internal and right-hand truncation is possible. * Replaces 0 to any number of characters. Ex: immuno* | alk*ne. Phrases enclosed with double quotes ("...") will be searched as a precise phrase. A search for "cell death protein" only finds results that exactly match: cell death protein.

Detailed step-by step methods

Detailed result view

Analysis of Immunoglobulin G in Blood serum by Chemical digestion. Method title. Download methods. Save document.

CAS Method Number: 2-115-CAS-119662. Unique method number. Method Category: Biorganism Isolation Assay; Biomolecule Isolation Assay. Technique: Biorganism Isolation Assay; Biomolecule Isolation Assay; Culture; Immunoblotting.

Analyte: Antibodies and Immunoglobulins. Matrix: Blood serum. Material: Semi-solid agar medium (Craigie medium); Blood agar medium; Rabbit sera with antibodies to the LPS antigens 1,9,12; Nitro Blue Tetrazolium. Reagent: Dimethylformamide; Sodium chloride; Magnesium chloride (MgCl2) hydrate (1:6); Nitro Blue Tetrazolium.

Equipment Used: Gel apparatus, Genetic Research Instruments. Instructions: Collection of serum samples. 1. Collect the serum samples from culture-positive patients infected with Salmonella typhimurium and also from healthy controls. 2. Obtain the serum samples from the patients with diarrhoea, abdominal pain and pyrexia. 3. Use the samples for analysis. Source: Collection of standard bacterial strains. 1. Obtain the bacterial strains like Salmonella Enteritidis (P132344; 1,9,12:g, m, S, Paratyphi A (1,2,12: a), Salmonella Paratyphi A, B and C human infections (J27; 1,4,5,12:i) and Salmonella Livingstone (J1300; 6,7,d) for the preparation of LPS antigens. Source and link to SciFinder. Rabbit sera with antibodies to the LPS antigens from strains of Salmonella Muenchen (J154; 6,8,d), Salmonella Dancoaster (J1293; 6,8: a), Char, Henric, Cheasty, Thomas, die Pinna, Elizabeth, Sorvanes, Lisa; Wain, ...

Expand for more. Additional information about reagents or analytes. Step-by step description.

Comparison functionality

If you want to compare up to three methods CAS Analytical Methods offers you a side-by-side comparison functionality.

During the review of your search result it is possible to add methods to the compare 'basket' which gives you a short overview of the selected methods. Additionally, you can also download the comparison using pdf or excel file format.

Compare up to 3 Methods. Method title and hyperlink to details. Delete method. Add method for compare functionality. Compare.

Method 1: Analysis of Antibodies and Immunoglobulins in Blood serum by Immunoblotting. Method 2: Analysis of Antibodies and Immunoglobulins in Blood serum by Gel electrophoresis. Method 3: Analysis of Immunoglobulin G in Blood serum by Hydrophobic interaction chromatography.

Methods added for comparison. Equipment Used: Denstometer, Molecular Dynamics, Sunnyvale, USA; HIC purifier, AKTA 100, GE Healthcare, USA.

Request training

Please send an email to Dr. Karin Färber at kfaerber@acs-lorg.

Annotated patents
Markush structures
Formulations

Advanced search Sequence search

Suppliers
CAS Roles
Citations
Bioactivity data
Analytical Methods



Regulatory data
Detailed protocols