

# ChemCart BioAssay

...biology data management through a web interface

ChemCart BioAssay provides ability to register assays and centralize screening results. From a web browser, users can load and report on both raw and reduced data, making the centralized repository the definitive source of chemical structures and their related test results.

The screenshot displays the ChemCart BioAssay web interface. At the top, there is a navigation bar with options like 'File', 'Edit', 'Form', 'List', 'Search', 'Sort', 'Update', 'Tools', 'Options', and 'Help'. Below this is a 'Test Results' section with a table of assay data. The table has columns for Project, Assay Name, Version, Notebook, Page, Cell Line, Result Type, Qualifier, Result, Units, Date Created, and Entered By. Below the table, there are several panels: 'Comments' with a text area, 'Result Image' showing a microscopic image of cells, 'Condition Type' and 'Condition Value' table, 'Document' list, 'Structure' showing a chemical structure, and 'Raw Data' options.

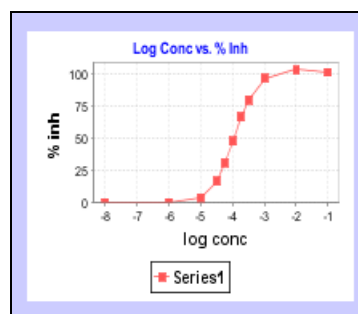
Project	Assay Name	Version	Notebook	Page	Cell Line	Result Type	Qualifier	Result	Units	Date Created	Entered By
CytoTox	CT-2	1	E1042	12	CEM	EC50	=	0.67	uM	10-Oct-2006	YVONNE
Enzyme	E1	1	E2302	14	AD79	CC50	=	11	uM	07-Aug-2006	YVONNE
Enzyme	E1	1	E5126	15	PBMC	EC50	=	11	uM	07-Aug-2006	YVONNE
Enzyme	E1	1	E4923	87	AD79	CC50	=	12	uM	07-Aug-2006	YVONNE
Enzyme	E1	1	E3210	20	AD79	CC50	=	12	uM	07-Aug-2006	YVONNE
Enzyme	E2	1	E2213	16	AD79	EC50	=	0.25	uM	07-Aug-2006	YVONNE
CytoTox	CT-2	1	E1042	20	MTL	EC50	=	7	uM	03-Jan-2007	YVONNE
CytoTox	CT-2	1	E1034	33	AD79	EC50	=	100	uM	02-May-2007	MKED
MitoTox	MT-2	1	E1234	45	PBMC	IC50	=	100	uM	03-Apr-2008	MKED
MitoTox	MT-2	1	E3245	22	MTL	IC50	=	1000	uM	18-Jun-2008	MKED

## ChemCart BioAssay features that benefit end users

- Easy to use, query by form interface
- Use pre-defined or user-configured forms to query, view and update information
- Search by sub-structure and/or any data field through the form, or build more complex queries using AND, OR, NOT logic
- Extensive list handling capabilities – sort, merge, store, retrieve, print, share
- Batch load data from a variety of file types
- Supports several popular chemistry formats, such as Accelrys, CambridgeSoft, ChemAxon, Daylight, Symyx

## ChemCart BioAssay manages screening results

- Links with chemical registration to verify existence of compound ID; no orphaned data
- Manage projects, assays, protocols, versions
- Apply picklists to maintain uniform vocabulary
- Upload test results by copy/paste from Excel or batch loading processes
- Archive instrument data files, protocol documents, image outputs
- Search by structure, compound ID, or any other assay-related field
- Create user-defined reports containing test results, structures, files, images, on-the-fly charts



Use ChemCart's **charting capabilities** to produce data plots or integrate with existing curve fitting tools. Or choose to store & display plot images.

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