



# ITS

User manual – LOINC Browser

## Introduction

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ITServer allows working with standard terminologies such as SNOMED CT, ICD-9-CM or LOINC and also with local terminologies.

First of all, once you enter in the browser you must select the terminology you want to access.

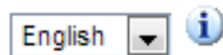
We'll see the browser running with LOINC.

## Language and version

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IT Server permits working with the Spanish and the English language versions of LOINC. The application provides the option to choose in which of the both languages we want to work. By default the selected language version is the Spanish version of LOINC.

Next to language selection is located the "i" icon. Hovering over this icon we could see the LOINC release that it is being used at this



## Browser module- Search

The LOINC Browser presents two different areas: "Browser" (on the left side of the display) and "Details" (on the right side of the display). We'll see now the "Browser" area.

The search box allows doing a search in LOINC by any given attribute.

Home Browser Subsets Mapsets Community Statistics Tools REST Services Administration

SNOMED CT ICD9-MC (Spanish) **LOINC** Local terminologies

English ⓘ

**Browser**

Terms Hierarchy

Search:  Component ▾

Loinc code	Component	Property	Time aspect	System	Scale	Method	Short name
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Picture 1\_ LOINC Browser

You can select in which of the six axis of LOINC you want to search. This selection is done from the box at right of the "Search" button. By default the search is focused in **Component**, but it's possible to display the list to search in **Property**, **Time aspect**, **System**, **Scale** or **Method**. You can also select the options to search by LOINC code or short name.

**Browser**

Terms Hierarchy

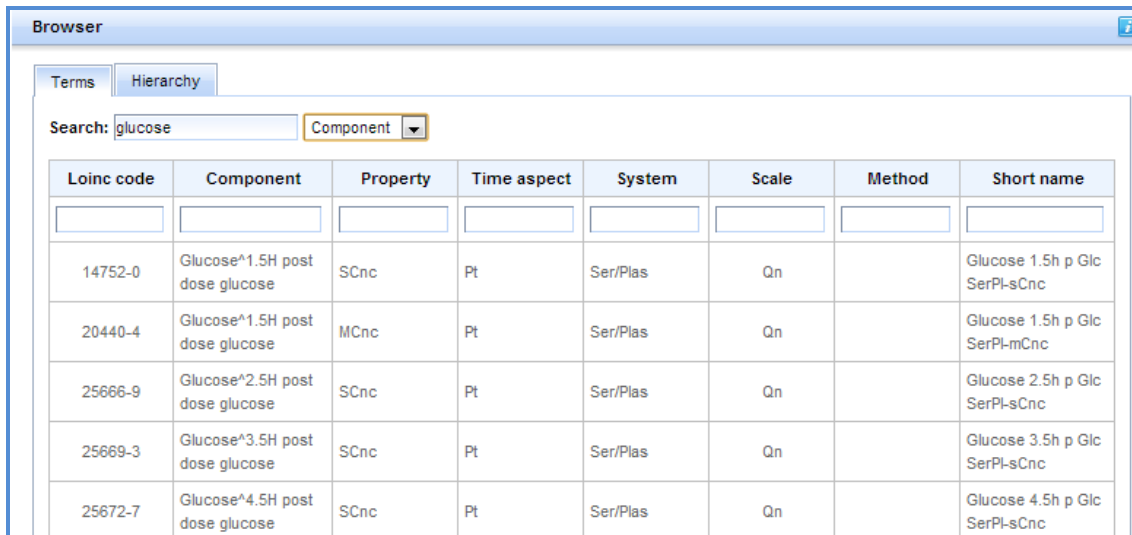
Search: glucose Component ▾

Loinc code	Component	Property	Time aspect	System	Scale	Method	Short name
14752-0	Glucose^1.5H pos dose glucose						
20440-4	Glucose^1.5H post dose glucose			MCnc			
25666-9	Glucose^2.5H post dose glucose			SCnc			

Picture 2\_ LOINC axis

You can see the information about the search term in a table under the "Search button". The table shows the **LOINC code**, **Component**, **Property**, **Time aspect**, **System**, **Scale**, **Method** and **Short name** in each item that matches the search criteria.

In addition, we have the possibility to filter the results for each of the columns.

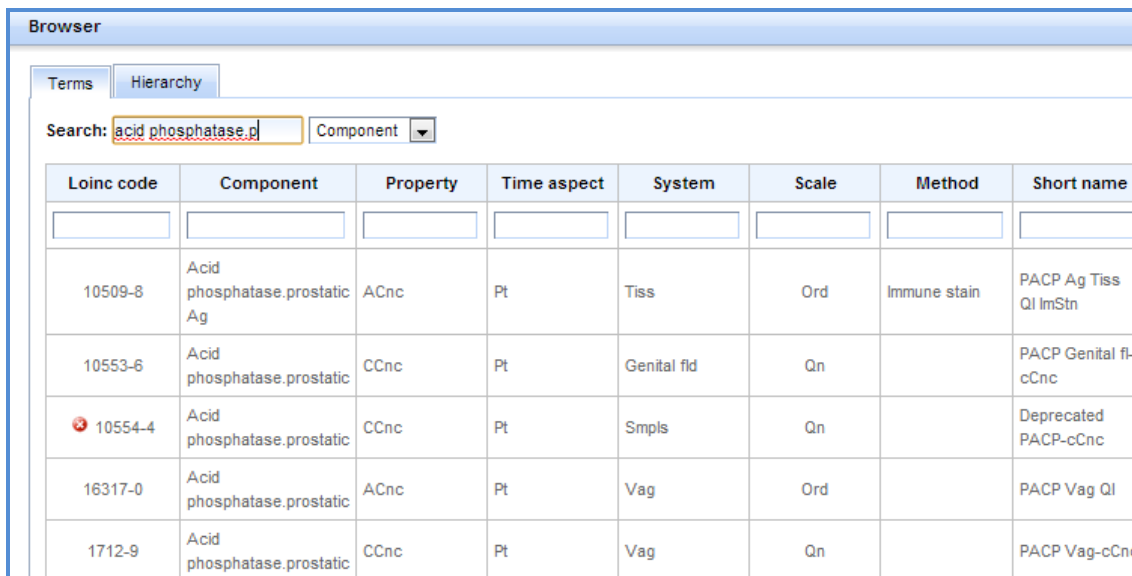


The screenshot shows the 'Browser' window with the 'Terms' tab selected. The search bar contains 'glucose' and the 'Component' dropdown is open. Below the search bar is a table with 8 columns: Loinc code, Component, Property, Time aspect, System, Scale, Method, and Short name. The table contains 5 rows of results for glucose-related LOINC codes.


Loinc code	Component	Property	Time aspect	System	Scale	Method	Short name
14752-0	Glucose^1.5H post dose glucose	SCnc	Pt	Ser/Plas	Qn		Glucose 1.5h p Glc SerPl-sCnc
20440-4	Glucose^1.5H post dose glucose	MCnc	Pt	Ser/Plas	Qn		Glucose 1.5h p Glc SerPl-mCnc
25666-9	Glucose^2.5H post dose glucose	SCnc	Pt	Ser/Plas	Qn		Glucose 2.5h p Glc SerPl-sCnc
25669-3	Glucose^3.5H post dose glucose	SCnc	Pt	Ser/Plas	Qn		Glucose 3.5h p Glc SerPl-sCnc
25672-7	Glucose^4.5H post dose glucose	SCnc	Pt	Ser/Plas	Qn		Glucose 4.5h p Glc SerPl-sCnc

Picture 3\_Search in Component axis

Sometimes you can view a red cross icon next to some LOINC codes. This symbolizes a warning saying that is an obsolete code.



The screenshot shows the 'Browser' window with the 'Terms' tab selected. The search bar contains 'acid phosphatase.p' and the 'Component' dropdown is open. Below the search bar is a table with 8 columns: Loinc code, Component, Property, Time aspect, System, Scale, Method, and Short name. The table contains 5 rows of results for acid phosphatase-related LOINC codes. The LOINC code 10554-4 is marked with a red cross icon, indicating it is an obsolete code.

Loinc code	Component	Property	Time aspect	System	Scale	Method	Short name
10509-8	Acid phosphatase.prostatic Ag	ACnc	Pt	Tiss	Ord	Immune stain	PACP Ag Tiss Ql ImStn
10553-6	Acid phosphatase.prostatic	CCnc	Pt	Genital fld	Qn		PACP Genital fl-cCnc
 10554-4	Acid phosphatase.prostatic	CCnc	Pt	Smpls	Qn		Deprecated PACP-cCnc
16317-0	Acid phosphatase.prostatic	ACnc	Pt	Vag	Ord		PACP Vag Ql
1712-9	Acid phosphatase.prostatic	CCnc	Pt	Vag	Qn		PACP Vag-cCnc

Picture 4\_Obsolete codes marked with an icon

Moreover, it's possible to navigate through the hierarchy of LOINC and check the details of a particular node

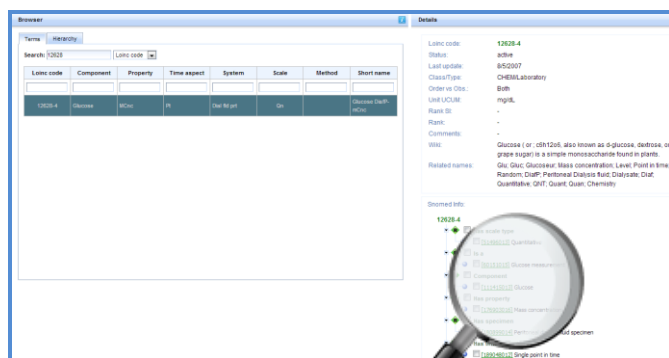
The screenshot shows the ITServer application interface with the 'Browser' tab selected. The 'LOINC' sub-tab is active, displaying a hierarchical tree of LOINC codes. The tree starts with 'LOINC' at the top, followed by '[1] LABORATORY'. Under 'LABORATORY', there are several panels listed, each with a LOINC code and a description. The panels are: [LP111373-9] PANEL.HL7.CYTOGEN, [LP111381-2] HL7.CYTOGEN, [LP116676-0] PANEL.PATH, [LP121011-3] MOLPATH.MISC, [LP135665-0] PANEL.SPEC, [LP146061-9] MOLPATH.INV, [LP29682-9] PANEL.ABXBACT, [LP29683-7] PANEL.DRUG/TOX, [LP31893-8] PANEL.COAG, [LP31894-6] PANEL.BLDBK, and [LP31895-3] PANEL.CHAL. The 'PANEL.CHAL' panel is expanded, showing a list of specific challenge panels, including: [24353-5] Glucose tolerance 2H gestational panel, [34541-3] ACTH stimulation test using IM corticosteroids, [34542-1] ACTH stimulation test using IV corticosteroids, [50179-1] Calcitonin Calcium & Pentagastrin challenge panel, [50581-8] Adenosine monophosphate.cyclic stimulation panel, [50582-6] Glucose tolerance gestational panel, [50583-4] Glucose screen gestational panel, [50584-2] Lactose challenge panel, [50585-9] Triple bolus stimulation panel, [50586-7] Glucose tolerance 3H panel, [50587-5] Glucose tolerance 4H panel, [50588-3] Glucose tolerance 5H panel, [50589-1] Glucose tolerance 6H panel, [50608-9] Glucose tolerance 3H gestational panel, [50673-3] Insulin XXX challenge panel, [54235-7] Cortisol challenge panel, [69554-4] Lactose tolerance panel^dosage unspecified, and [69555-1] Lactose tolerance panel^dosage unspecified.

LOINC Code	Description
[1] LABORATORY	LABORATORY
[LP111373-9]	PANEL.HL7.CYTOGEN
[LP111381-2]	HL7.CYTOGEN
[LP116676-0]	PANEL.PATH
[LP121011-3]	MOLPATH.MISC
[LP135665-0]	PANEL.SPEC
[LP146061-9]	MOLPATH.INV
[LP29682-9]	PANEL.ABXBACT
[LP29683-7]	PANEL.DRUG/TOX
[LP31893-8]	PANEL.COAG
[LP31894-6]	PANEL.BLDBK
[LP31895-3]	PANEL.CHAL
[24353-5]	Glucose tolerance 2H gestational panel
[34541-3]	ACTH stimulation test using IM corticosteroids
[34542-1]	ACTH stimulation test using IV corticosteroids
[50179-1]	Calcitonin Calcium & Pentagastrin challenge panel
[50581-8]	Adenosine monophosphate.cyclic stimulation panel
[50582-6]	Glucose tolerance gestational panel
[50583-4]	Glucose screen gestational panel
[50584-2]	Lactose challenge panel
[50585-9]	Triple bolus stimulation panel
[50586-7]	Glucose tolerance 3H panel
[50587-5]	Glucose tolerance 4H panel
[50588-3]	Glucose tolerance 5H panel
[50589-1]	Glucose tolerance 6H panel
[50608-9]	Glucose tolerance 3H gestational panel
[50673-3]	Insulin XXX challenge panel
[54235-7]	Cortisol challenge panel
[69554-4]	Lactose tolerance panel^dosage unspecified
[69555-1]	Lactose tolerance panel^dosage unspecified

## Browser module – Details

It's possible to see more info of each code by clicking on the row that interests you. The area shows the LOINC code details such as Status, Last Update, Class/Type, Order vs. Observation, Unit UCUM, Rank SI, Rank, Comments and Wikipedia definition.

Moreover, it is possible to see the official mapping with SNOMED CT and select relations from this code to SNOMED CT using the checkbox in "SNOMED info". The selected relationships can be added to the "Shopping list" in order to insert later in any of our SNOMED CT subsets.



**Details**

Loinc code: **12628-4**

Status: active

Last update: 8/5/2007

Class/Type: CHEM/Laboratory

Order vs Obs.: Both

Unit UCUM: mg/dL

Rank SI: -

Rank: -

Comments: -

Wiki: Glucose ( or ; c6h12o6, also known as d-glucose, dextrose, or grape sugar) is a simple monosaccharide found in plants.

Related names: Glu; Gluc; Glucoseur; Mass concentration; Level; Point in time; Random; DiaP; Peritoneal Dialysis fluid; Dialysate; Diaf; Quantitative; QNT; Quant; Quan; Chemistry

**Snomed Info:**

**12628-4**

- ☐ Has scale type
  - ☐ [51496013] Quantitative
- ☐ Is a
  - ☐ [60151015] Glucose measurement
- ☐ Component
  - ☐ [111415013] Glucose
- ☐ Has property
  - ☐ [176903016] Mass concentration
- ☐ Has specimen
  - ☐ [180899014] Peritoneal dialysis fluid specimen
- ☐ Has time aspect
  - ☐ [189048012] Single point in time

Picture 5\_LOINC code details