ANDRO-Androstendion	Ser/Pla	1854-9	Androst SerPl-mCnc	Massenkonz.	ng/ml	ANDRO-Androstendion
Beta-hCG (gesamt)	Ser	20415-6	B-HCG Ser EIA 3rd IS-aCnc	arbitr.Konz.	mIU/ml	Beta-hCG (gesamt)
Calcitonin	Ser/Pla	1992-7	Calcit SerPl-mCnc	Massenkonz.	pg/ml	Calcitonin
Cortisol	Ser/Pla	2143-6	Cortis SerPl-mCnc	Massenkonz.	ng/dl	Cortisol
C-Peptid	Ser/Pla	14633-2	C Peptide SerPl-sCnc	Substanzkonz.	nmol/l	C-Peptid
DHEA-S	Ser/Pla	2191-5	DHEA-S SerPl-mCnc	Massenkonz.	ng/dl	DHEA-S
EPO-Erythropoetin	Ser/Pla	15061-5	EPO SerPl-aCnc	arbitr.Konz.	U/l	EPO-Erythropoetin
Folsäure	Ser	2284-	Folate Ser-mC	Mass	/ml	Folsäure
FSH <Follikelstimulierendes Hormon>	Ser/Pla	15067-2	FSH SerPl-aC	arbitr.Kon	mIU/	FSH <Follikelstimulierendes Hormon>
FT3	Ser/Pla	3051-0	T3Free SerPl-mCnc	Massenkonz.	pg/ml	FT3
FT4	Ser/Pla	3024-7	T4 Free SerPl-mCnc	Massenkonz.	ng/dl	FT4
HGH	Ser/Pla	2963-	SerPl-mCnc	Mas konz.	ng/	HGH
Homocystein	Ser/Pla	206 -6	Homocys SerPl-sC	Sub anzkonz.	µ /l	Homocystein
Insulin	Ser/Pla	20448-7	Insulin SerPl-aCnc	arbitr.Konz.	µU/ml	Insulin
LH <Luteinisierendes Hormon>	Ser/Pla	10501-5	LH SerPl-aCnc	arbitr.Konz.	mIU/ml	LH <Luteinisierendes Hormon>
Osteocalcin		26	Oste Ser-mCnc	Massenk z.	ng/	Osteocalcin
Östradiol	Ser/Pla	2 -4	Estr l SerPl-mCnc	Massenko	p l	Östradiol
Östradiol, bioverfügbares (BAE)	/Pla	2 4-2	Estradiol Bioavail SerPl- Cnc	Mas enkonz.	g/ml	Östradiol, bioverfügbares (BAE)
Östradiol, bioverfügbares (BAE) %	Ser/Pla	13883-4	Estradiol Bioavail fr SerPl	Massenfraktion	%	Östradiol, bioverfügbares (BAE) %
Progesteron	Ser/Pla	2839-9	Progest SerPl-mCnc	Massenkonz.	ng/ml	Progesteron
Prolaktin	Ser/Pla	20568-2	Prolactin SerPl EIA-mCnc	Massenkonz.	ng/ml	
PTH intakt	Ser/Pla	2731-8	PTH-Intact SerPl-mCnc	Massenkonz.	pg/ml	
SHBG	Ser	13967-5	SHBG Ser-sCnc	Substanzkonz.	nmol/l	
TBG (alpha Anti-Thyreoglobulin) ??????	Ser	8098-6	Thyroglob Ab Ser-aCnc	Massenkonz.	µg/ml	Anti-Thyreoglobulin

DAS LOINC PROJEKT DES KAV

kav wiener krankenanstalten verbund Unternehmen Gesundheit

Wozu brauchen wir das?

OINC, OINC - Projekt

Das Kapitalsparbuch

1.Bezirk

Kapitalsparbuch

2.Bezirk

Sparkapitalbuch

19.Bezirk

Großkapitalsparbuch

22.Bezirk

Kapitalistensparbuch

Die Zinsen

ERSTE BANK
1.Bezirk

4.5% auf 2 Jahre

ERSTE BANK
2.Bezirk

45‰ auf 24 Monate

ERSTE BANK
19.Bezirk

4.5 Cent / 1 € auf 2 J.

ERSTE BANK
22.Bezirk

0.62 OES / 1€ auf 2 J.

Ein Parameter, viele Varianten

Labor	Bezeichnung	Einheit
Labor 1	Eiweiß im Harn	g/l
Labor 2	Protein im Urin	g/l
Labor 3	Gesamteiweiß im Harn	mg/l
Labor 4	Gesamteiweiß im Urin	mg/dl
Labor 5	Totalprotein im Harn	g/l

Ein Parameter, viele Codes

Labor	Bezeichnung	Einheit	Code
Labor 1	Eiweiß im Harn	g/l	111
Labor 2	Protein im Urin	g/l	TP
Labor 3	Gesamteiweiß im Harn	mg/l	CK8
Labor 4	Gesamteiweiß im Urin	mg/dl	S19
Labor 5	Totalprotein im Harn	g/l	100

1. Initiative im SMZ-Ost

	A	B	C	D
1	**KAV-IT CODE**	**DSP NUMMER**	**DSP CODE**	**LANGTEXT**
2	Y00001	121	A1GK	alpha-1-Globulin Konz.
3	Y00002	114	A1GLOB	alpha-1-Globulin
4	Y00003	122	A2GK	alpha-2-Globulin Konz.
5	Y00004	115	A2GLOB	alpha-2-Globulin
6	Y00005	300	A2GLYC	A 2 Glycoprotein
7	Y00006	295	AAT	A1 Antitrypsin
8	Y00007	971	AATF	A1 Antitrypsin Stuhl
9	Y00008	7501	ACEN	Angiotensin conv.Enzym
10	Y00009	905	ACETR	Aceton qual.
11	Y00010	7571	AFPE	A-Fetoprotein S - E
12	Y00011	758	AFPX	A-Fetoprotein X
13	Y00012	5201	ALATN	ALAT (GPT)
14	Y00013	5203	ALATPN	ALAT (GPT) Plasma
15	Y00014	291	ALB	Albumin
16	Y00015	113	ALB1	Albumin
17	Y00016	120	ALBK	Albumin Konz.
18	Y00017	499	ALBP	Albumin im Plasma

LOINC

Logical
Observation
Identifiers
Names and
Codes

Zielsetzung des LOINC Katalogs

“The purpose of the LOINC® database is to facilitate the exchange and pooling of results, such as blood hemoglobin, serum potassium, or vital signs, for clinical care, outcomes management, and research.“

LOINC ist eine freiwillige Initiative des Regenstrief Institutes, eine non-profit Einrichtung für medizinische Forschung an der Indiana University. LOINC wurde vom Regenstrief Institut und dem LOINC-Komitee als Antwort auf die Notwendigkeit der Übertragung von medizinischen Daten 1994 initiiert.

Facts zu LOINC

(© Regenstrief Inst.)

- **52 000 Parameter, davon 40 000 Laborparameter**
- **empfohlen vom American Clinical Laboratory Association and the College of American Pathologists.**
- **verwendet von großen kommerziellen Labors wie Quest, LabCorp, Mayo Medical Laboratories, and MDS Labs**
- **großen HMOs ...,**
- **Bundesorganisationen: CDC, DOD, VA, and NLM**
- **... has also been adopted by Germany, Switzerland and two Canadian provinces.**

Sollten wir IUPAC verwenden?

International

Union of

Pure and

Applied

Chemistry

Search for properties by NPU code:

Go

OR

Search for properties by element: Go

Search all parts

☐ Search within results of the previous query

Restrict to certain specialties:

☐ Allerg, ☐ Chem, ☐ Pharm, ☐ IEM, ☐ MolB, ☐ Immuno, ☐ Micro, ☐ Repro, ☐ Thromb

Display format: HTML Long

Info

Query for: 'glucose' Download results of

[NPU01523] Csf—Glucose; rel.subst.c.(

[NPU18842] Synf(spec.)—Glucose; arb.

[NPU18017] P—Glucose; subst.c.(T24) =

[NPU18097] Pericardialf.—Glucose; sub

[NPU17566] U—Glucose; am.s.(proc.) =

[NPU17050] Drain fluid(spec.)—Glucos

[NPU17079] Dialysis solution(perit.)—C

[NPU14352] B—Glucose; subst.c.(5 min

[NPU14353] B(cB)—Glucose; subst.c.(5

[NPU14165] U—Glucose; subst.c.(150 n

[NPU14166] U—Glucose; subst.c.(210 n

[NPU14167] U—Glucose; subst.c.(270 n

[NPU14168] U—Glucose; subst.c.(330 min) = ? mmol/l

[NPU10652] P—Glucose; subst.c.(110 min) = ? mmol/l

http://dior.imt.liu.se/cnpu/XMLProperty.asp?npu=14352&xsl=1 - Micr...

Blood—

Glucose;

substance concentration(5 minutes after challenge)

millimole/litre

M = 180,16 g/mol

NPU14352

B—Glucose; subst.c.(5 min) = ? mmol/l

Sollten wir IUPAC verwenden?

International Union of Pure and Applied Chemistry

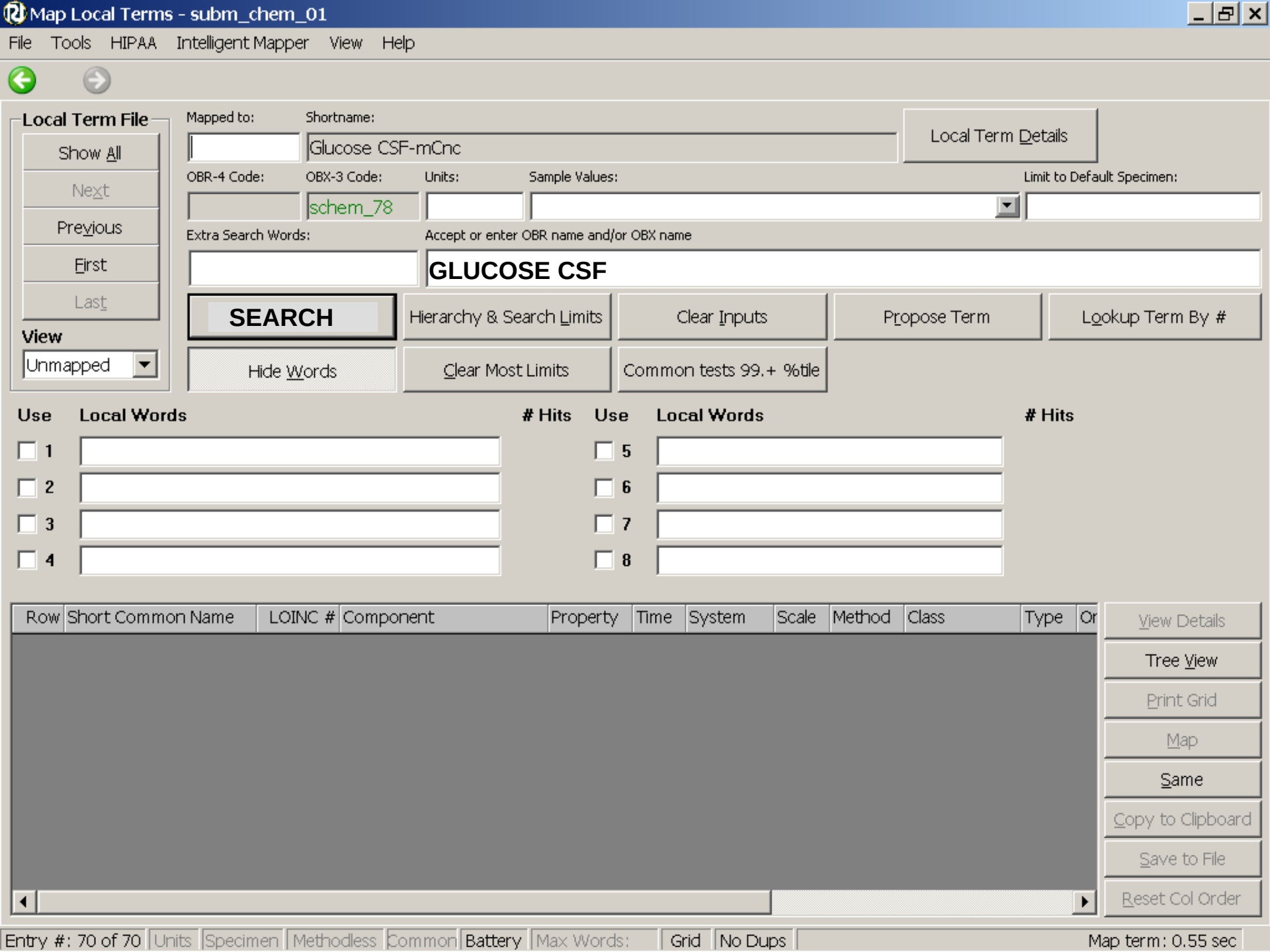
[NPU01349] B—Basophilocytes; num.c. = ? × 10^{9}/l

[NPU18316] Lkcs(Syst; spec.)—Basophilocytes; num.fr. = ?

[NPU18344] B—Basophilocytes+Eosinophilocytes+Monocytes; num.c. = ? × 10^{9}/l

[NPU18164] Lkcs(Asc)—Basophilocytes; num.fr. = ?

[NPU18293] Lkcs(Csf)—Basophilocytes; num.fr. = ?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File
Tools
HIPAA
Intelligent Mapper
View
Help
Local Term File
Show All
Next
Previous
First
Last
View
Unmapped
Mapped to:
Shortname:
Glucose CSF-mCnc
Local Term Details
OBR-4 Code:
OBX-3 Code:
schem_78
Units:
Sample Values:
Limit to Default Specimen:
Extra Search Words:
Accept or enter OBR name and/or OBX name
GLUCOSE CSF
SEARCH
Hierarchy & Search Limits
Clear Inputs
Propose Term
Lookup Term By #
Hide Words
Clear Most Limits
Common tests 99.+ %tile
Use
Local Words
Hits
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Short Common Name
LOINC #
Component
Property
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System
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Or
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Print Grid
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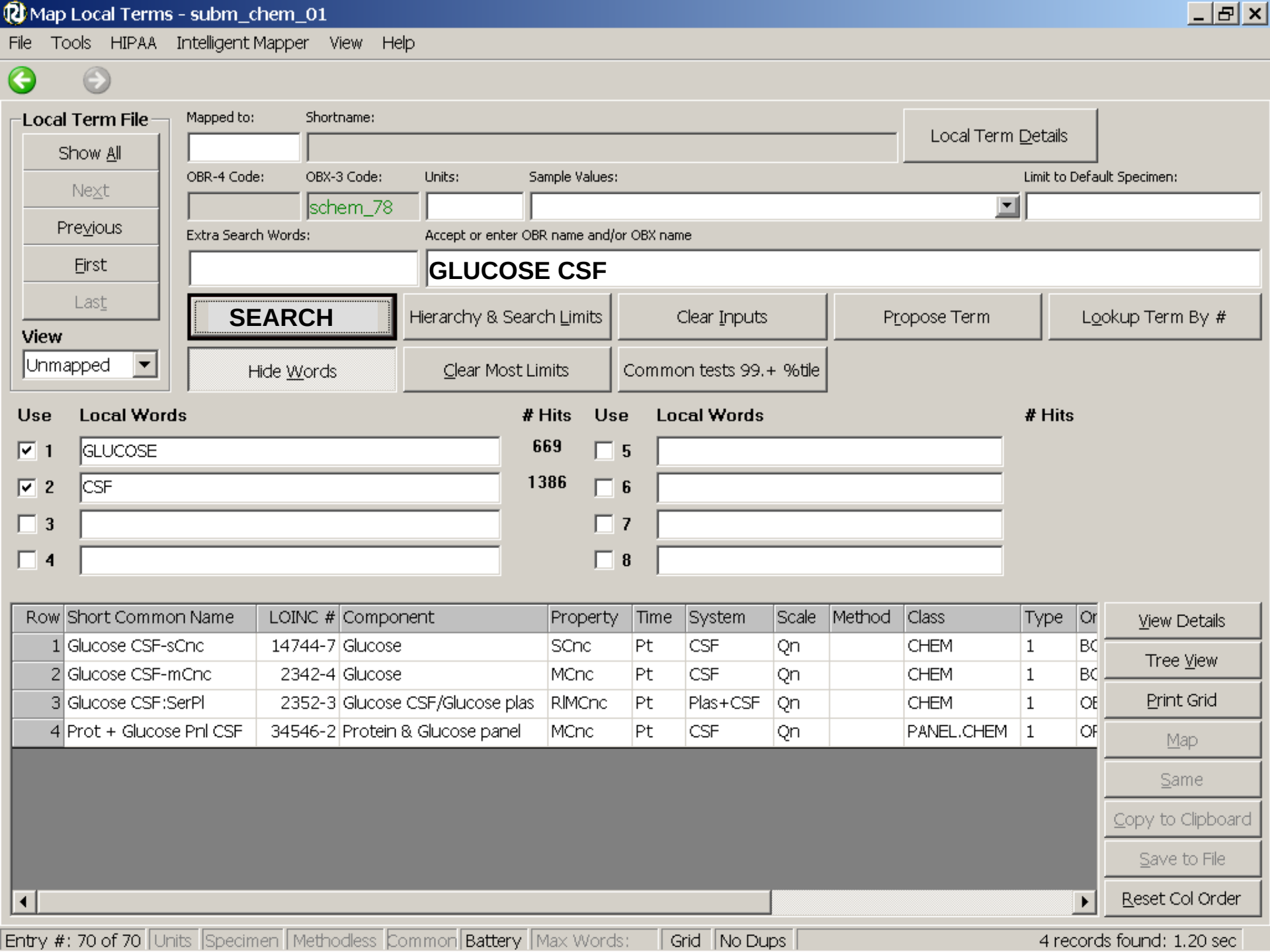
Map Local Terms - subm_chem_01
File Tools HIPAA Intelligent Mapper View Help
Local Term File
Show All
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Mapped to:
Shortname:
Local Term Details
OBR-4 Code:
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schem_78
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GLUCOSE CSF
SEARCH
Hierarchy & Search Limits
Clear Inputs
Propose Term
Lookup Term By #
Hide Words
Clear Most Limits
Common tests 99.+ %tile
Use
Local Words
Hits
1 GLUCOSE 669
2 CSF 1386
3
4
5
6
7
8
Row
Short Common Name
LOINC #
Component
Property
Time
System
Scale
Method
Class
Type
1 Glucose CSF-sCnc 14744-7 Glucose SCnc Pt CSF Qn CHEM 1
2 Glucose CSF-mCnc 2342-4 Glucose MCnc Pt CSF Qn CHEM 1
3 Glucose CSF:SerPl 2352-3 Glucose CSF/Glucose plas RlMCnc Pt Plas+CSF Qn CHEM 1
4 Prot + Glucose Pnl CSF 34546-2 Protein & Glucose panel MCnc Pt CSF Qn PANEL.CHEM 1
View Details
Tree View
Print Grid
Map
Same
Copy to Clipboard
Save to File
Reset Col Order
Entry #: 70 of 70
Units
Specimen
Methodless
Common
Battery
Max Words:
Grid
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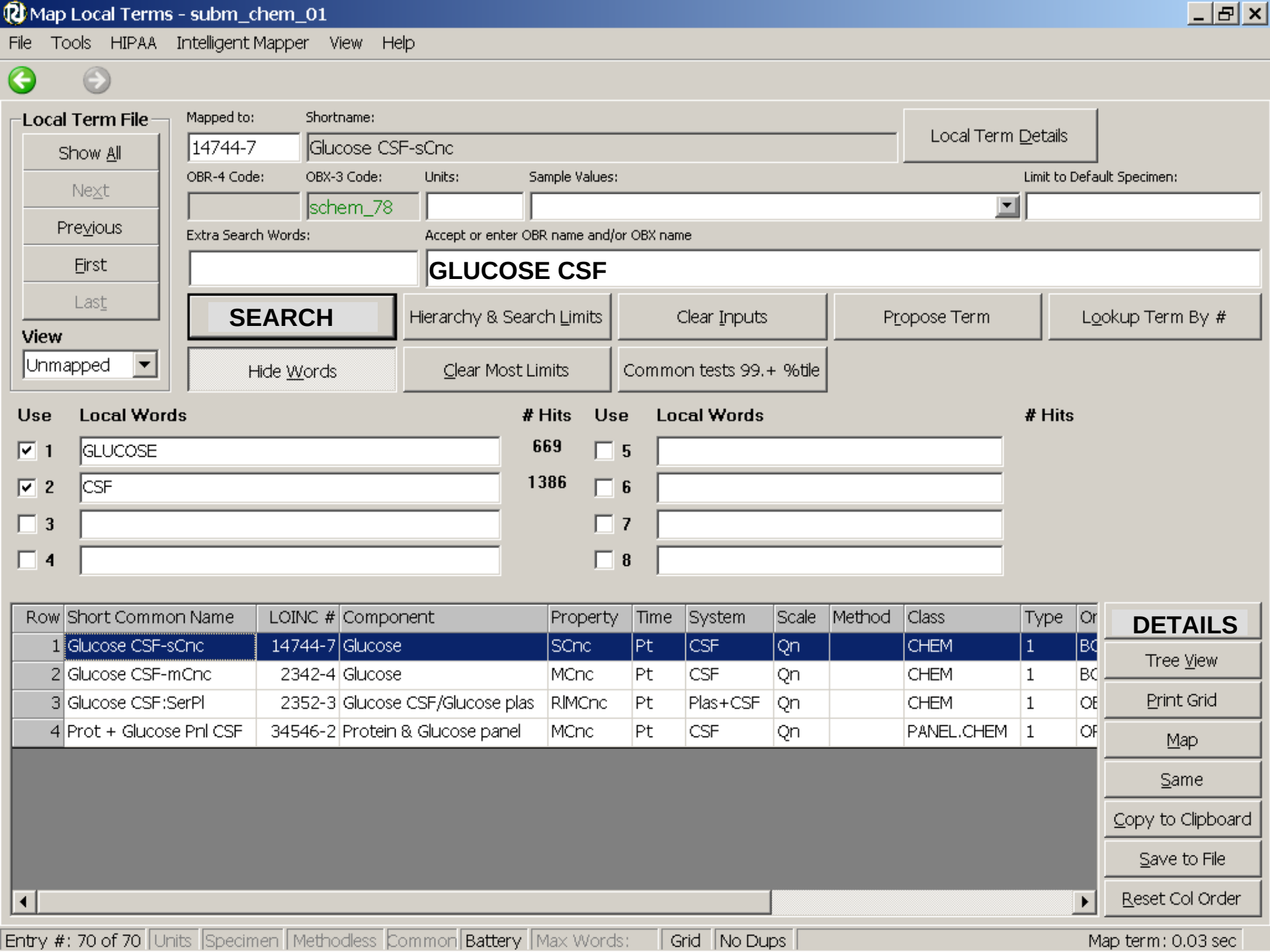
4 records found: 1.20 sec


Map Local Terms - subm_chem_01
File Tools HIPAA Intelligent Mapper View Help
Local Term File
Show All
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14744-7
Shortname:
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2 CSF 1386
3
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Row
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3 Glucose CSF:SerPl 2352-3 Glucose CSF/Glucose plas RlMCnc Pt Plas+CSF Qn CHEM 1
4 Prot + Glucose Pnl CSF 34546-2 Protein & Glucose panel MCnc Pt CSF Qn PANEL.CHEM 1
DETAILS
Tree View
Print Grid
Map
Same
Copy to Clipboard
Save to File
Reset Col Order
Entry #: 70 of 70
Units
Specimen
Methodless
Common
Battery
Max Words:
Grid
No Dups
Map term: 0.03 sec

14744-7 Glucose CSF-sCnc

NAME

Component	Property	Time	System	Scale	Method
Glucose	SCnc	Pt	CSF	Qn	

BASIC PROPERTIES

Class/Type:	CHEM/Lab
Mole ID:	50-99-7
Order vs. Obs.:	BOTH
Units Required:	Y
US or EU Property:	S

UNITS

Unit	Source Type
mmol/L	CHI

LOINC Grundsätze: Spezimen

„We are guided by the pragmatics of conventional usage:

If laboratories define separate tests for the same measurements done on different specimens, we will define different tests in our dictionary“

LOINC Grundsätze: Methode

„The extent to which we include methods as part of the name is also guided by pragmatics:

Where laboratories do not tend to include the method in the name -- e.g. most of chemistry -- we do not include the method in the name. Where they tend to -- e.g. in immunochemistry -- we do.“

Finden des richtigen LOINC Codes ist nicht so einfach wie es scheint!

Problemfall C1-Est-INH

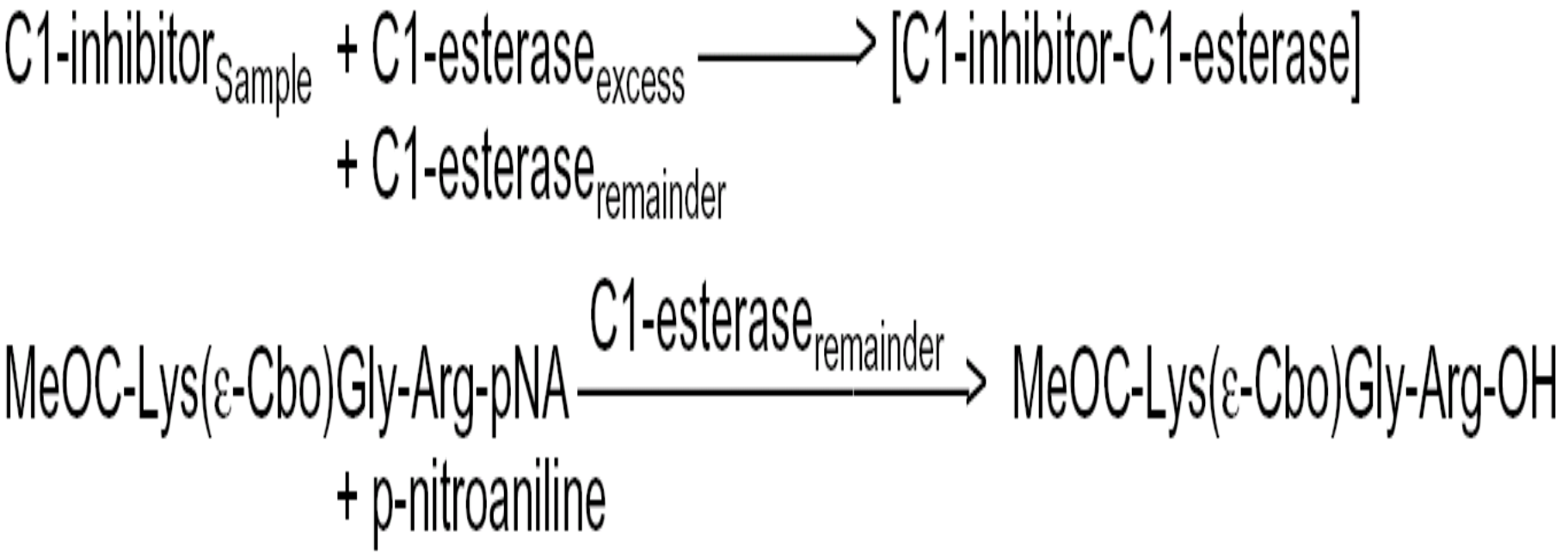
C1 Esterase-Inhibitor	Ser	% der Norm

Problemfall C1-Est-INH

Row	Short Common Name	LOINC #	Component	Property
10	C1INH SerPl-mCnc	4477-6	Complement C1 esterase inhibitor	MCnc
9	C1INH Functional SerPl-mCnc	4476-8	Complement C1 esterase inhibitor.functional	MCnc
2	C1INH Functional SerPl Ql	15161-3	Complement C1 esterase inhibitor.functional	ACnc
1	C1INH Functional Fr SerPl	10634-4	Complement C1 esterase inhibitor.functional/Complement C1 esterase inhibitor.total	MFr
7	C1INH Functional Fld-mCnc	34619-7	Complement C1 esterase inhibitor.functional	MCnc
6	C1INH Free IgM SerPl-mCnc	18213-9	Complement C1 esterase inhibitor free Ab.IgM	MCnc
5	C1INH Free IgG SerPl-mCnc	18212-1	Complement C1 esterase inhibitor free Ab.IgG	MCnc
8	C1INH Fld-mCnc	36906-6	Complement C1 esterase inhibitor	MCnc
4	C1INH Bnd IgM SerPl-mCnc	18211-3	Complement C1 esterase inhibitor bound Ab.IgM	MCnc

try #: 70 of 70 | Units | Specimen | Methodless | Common | Battery | Max Words: | Grid | No Dups | Start-u

Problemfall C1-Est-INH



Problemfall C1-Est-INH

Row	Short Common Name	LOINC #	Component	Property
10	C1INH SerPl-mCnc	4477-6	Complement C1 esterase inhibitor	MCnc
9	C1INH Functional SerPl-mCnc	4476-8	Complement C1 esterase inhibitor.functional	MCnc
2	C1INH Functional SerPl Ql	15161-3	Complement C1 esterase inhibitor.functional	ACnc
1	C1INH Functional Fr SerPl	10634-4	Complement C1 esterase inhibitor.functional/Complement C1 esterase inhibitor.total	MFr
7	C1INH Functional Fld-mCnc	34619-7	Complement C1 esterase inhibitor.functional	MCnc
6	C1INH Free IgM SerPl-mCnc	18213-9	Complement C1 esterase inhibitor free Ab.IgM	MCnc
5	C1INH Free IgG SerPl-mCnc	18212-1	Complement C1 esterase inhibitor free Ab.IgG	MCnc
8	C1INH Fld-mCnc	36906-6	Complement C1 esterase inhibitor	MCnc
4	C1INH Bnd IgM SerPl-mCnc	18211-3	Complement C1 esterase inhibitor bound Ab.IgM	MCnc

try #: 70 of 70 | Units | Specimen | Methodless | Common | Battery | Max Words: | Grid | No Dups | Start-u

2 Möglichkeiten

- **Einreichung beim Regenstrief-Institut**

- **Die Vergabe eines lokalen Codes**
  oder „*Die verbaute Zukunft*“

	LOINC Part	Record and explain new part here
Analyte:	itor.functional/Complement C1 esterase inhibitor.tot	
Suffix:		
Divisor:		
Challenge:		
Adjustment:		
4th Subpart:		
Property:	MFr	
Time:	Pt	
Timing Modifier:		
System:	Ser/Plas	
Super System:		
Scale:	Qn	
Method:		
Units:		
Species:		

(•) Example Answers (Results) ( ) Answer List

Answers:		
Related Names:		
Comments:		

48494-9 C1INH Act/Nor SerPl **kommt aus Wien**

NAME

Component	Property	Time	System	Scale
Complement C1 esterase inhibitor actual/Normal	RlCCnc	Pt	Ser/Plas	Qn

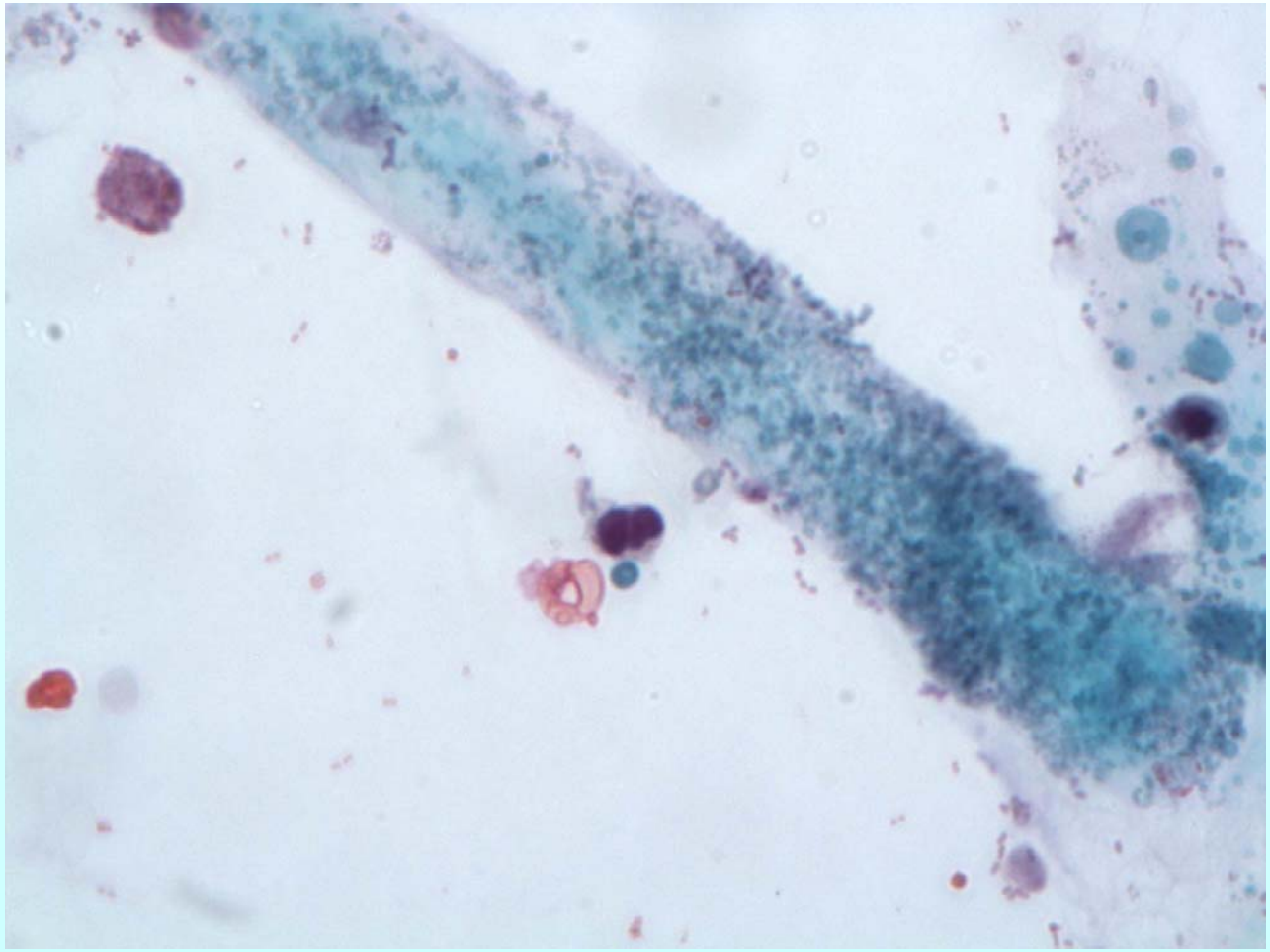
BASIC PROPERTIES

Class/Type:	HEM/BC/Lab
Order vs. Obs.:	BOTH
Units Required:	N

UNITS

Unit	Source Type
%	SUBMITTER

Noch ungelöstes Problem: das automatische Harnsediment



Noch ungelöstes Problem: das automatische Harnsediment

Das automatische Harnsediment

Meist: negativ, vereinzelt, spärlich, mäßig, reichlich, massenhaft

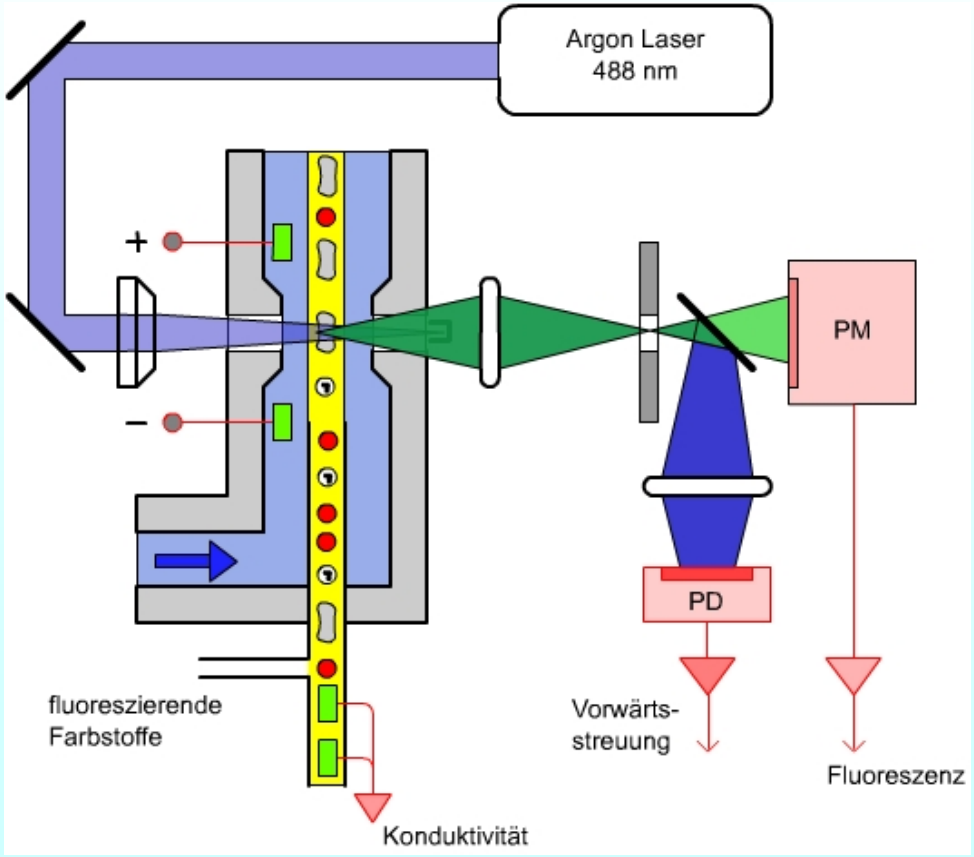
Manchmal: 0-4 pro GF, 5-15 pro GF, 16-30 pro GF, reichlich massenhaft - welches Gesichtsfeld LPF, HPF

Revolutionär/visionär: Anzahl / µl

Zusatzproblematik...

Das automatische Harnsediment

....es ist ja gar kein Sediment mehr.



www.biorama.ch

Umfang und Ausblick

Ca. 1800-2000 Analyte

Ca. 300 - 400 Einreichungen

Fertigstellung noch diesen Herbst