

iRC Pro

(Not for diagnostic use)

User guide 2016

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Overview

iRC Pro is a software for data processing of concentration and intensity tests of injection triple quadrupole mass spectrometry (FI/MS/MS) data generated by Thermo Scientific Xcalibur software. The tests can ben concentrations and equations of concentrations. Warning! iRC Pro IS NOT FOR DIAGNOSTIC USE.

Release notes

v1.3.0.5 minor upgrade

- support for Foundation 3.0 e Xcalibur 3.0

v1.3.0.0 major upgrade

- support for Foundation 3.0 e Xcalibur 3.0
- changes in UI for Formula and Concentration tests
- improved ranges management.

v1.2.0.0 major upgrade

- fixed some bugs
- new setup and upgrade procedure
- improved results excel and text file export

v1.1.0.7 minor upgrade

- improved database restore procedure

v1.1.0.0 first release

Requirements

To install IRcPro you need a pc with these requirements:

Supported operating systems:

- Windows XP SP3
- Windows 7 SP1 (x86 and x64)
- Windows 8 (x86 and x64)
- Windows Server 2008 R2 SP1 (x64)
- Windows Server 2012 (x64)

Supported architectures:

- 32-bit (x86)
- 64-bit (x64)

Hardware requirements:

- •1.6 GHz or faster processor
- •1 GB of RAM (1.5 GB if running on a virtual machine)
- 10 GB of available hard disk space

Software requirements:

- Xcalibur & Thermo Foundation 2.0 or above
- Microsoft SqlServer 2008 (it can be installed during IRcPro setup)

• Microsoft Windows installer 4.5 (on Windows 7 or Windows 8 it's already part of the SO; on Windows XP it can be installed during IRcPro setup)

• Microsoft .Net Framework 3.51 (on Windows 7 or Windows 8 it's already part of the SO; on Windows Xp; it can be installed during IRcPro setup)

Setup

Read the topics bellow to learn how to install and configure iRC Pro software.

Setup by DVD

To setup iRC Pro from CD/DVD you have to :

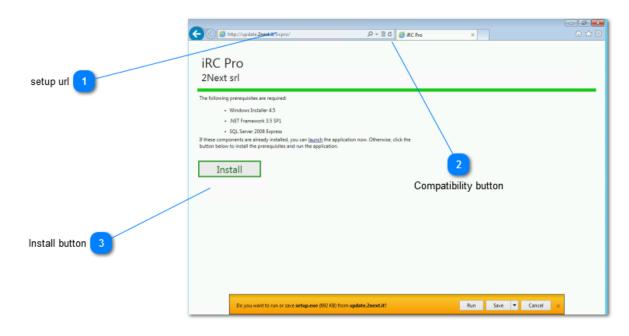
- 1. Insert CD/DVD
- 2. If autorun doesn't start open cd/dvd with explorer and click on setup.exe
- 3. Follow instructions
- 4. When iRC Pro is installed go to Licensing section

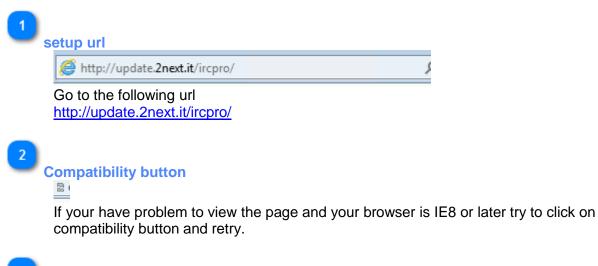
Setup by Internet

Setup from Internet can be performed without having installation cd. If the software is installed by Internet, each time the application runs, it checks for an update and asks to install the upgrade. Here below it is explained the procedure to install the software.

step 1 - Install from url

Go to setup url and click to Install to perform setup.





3 Install button Install

Click **Install** to start the setup.

step 2 - Click on Run

Click on Run button to start setup process. Click on Yes when some window appears to install component. If a reboot is needed please click yes or restart your pc before proceeding.

	0 Rd Cars		
+ 😥 🥖 http://update.2next.it/ircpro/	, 🍳 🗟 🖉 iRC Pro	×	ŵ
iRC Pro			
2Next srl			
The following prerequisites are required:			
Windows Installer 4.5			
.NET Framework 3.5 SP1			
SQL Server 2008 Express			
If these components are already installed, you can launch the			
button below to install the prerequisites and run the application	tion.		
Install			
		Click on Run	
			
			_
Do you want to run or save setup.exe (692	KB) from update.2next.it?	Run Save 🔻 Cancel	×
	•		



Depend on your browser you have to confirm your choice. In IE8 or later you have to click on **Run** button.

step 3 - Accept Windows Installer 4.5 setup

Warning: If you have Windows 7 or Windows server 2008 or later, you maybe already have this component so this window will not appear.

Click on Start button to run application.

Software Updat	te Installation Wizard	\mathbf{X}	
License Agre	ement		
	Please read the following license agreement. To continue with setup, you must accept the agreement. MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT WINDOWS INSTALLER, VERSION 4.5 These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you Image: Comparison of the software of the software named above, which includes the media on which you Image: Comparison of the software of the software of the software of the software named above, which includes the media on which you Image: Comparison of the software of the so	Cancel	1 Click

1	1			
	Cli	ck	on	Next
		Г	<u>N</u> e:	⟨t>

IRCPro needs some prerequisites to work. One of these is Windows Installer 4.5. Click on **Next** button to confirm Windows Installer 4.5 component setup.

Warning: If you have Windows 7 or Windows server 2008 or later, you maybe already have this component so this window will not appear.

step 4 - Accept Microsoft .Net Framework 3.5 sp1 setup

Warning: If you have Windows 7 or Windows server 2008 or later, you maybe already have this component so this window will not appear.

Click on Start button to run application.

nicrosoft .NET Framework 3.	5 SP1 Setup		_ 🗆 🗙
Welcome to Setup	.ne	t Framew	ork
Be sure to carefully read and unde license terms. You must accept the	rstand all the rights and restrict license terms before you can ir	tions described in the nstall the software.	
MICROSOFT SOF	TWARE SUPPLE	MENTAL	_
Press the Page Down key to see m	ore text.	P	rint
• I have read and ACCEPT the te	-		
I DO NOT ACCEPT the terms of	the License Agreement		
Send information about my set	up experiences to Microsoft Cor	poration.	
Details regarding the data collection	n policy		
Download File Size:	39 MB		
Download Time Estimate:	1 hr 35 min (56 kbps)		
	10 min (512 kbps)		
		Install > Ca	ancel

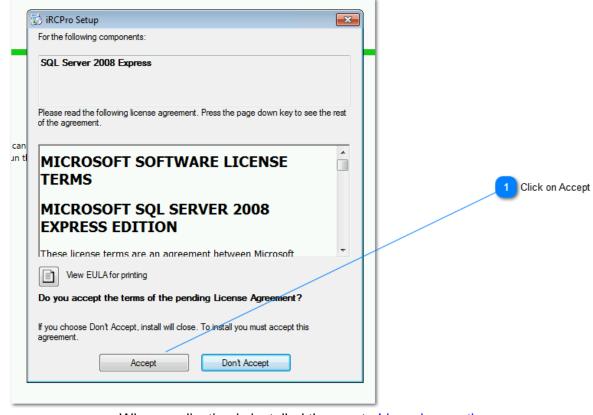


IRCPro needs some prerequisites to work. One of these is .net framework 3.5 sp1. Click on **Install** button to confirm .Net framework 3.5 sp1components setup.

Warning: If you have Windows 7 or Windows server 2008 or later, you maybe already have this component so this window will not appear.

step 5 - Accept Sqlserver 2008 express setup

Click on Start button to run application.

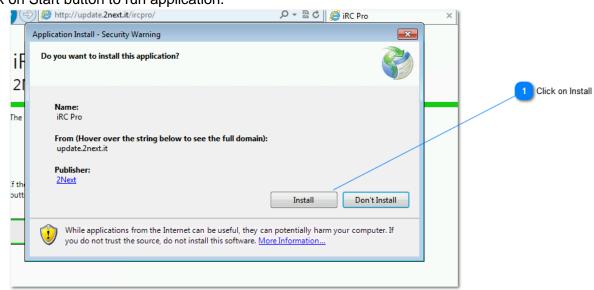


When application is installed than go to Licensing section



IRCPro needs some prerequisites to work. One of these is SqlServer 2008 Express. Click on **Accept** button to confirm SqlServer 2008 Express component setup.

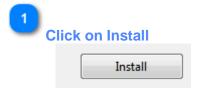
Warning: After downloading, if you have Windows 7 or Windows server 2008 or later, you maybe be prompted to confirm User Access Control to allow Sqlserver 2008 setup changes.



step 6 - IrcPro setup

Click on Start button to run application.

When application is installed than go to Licensing section



Click on Install button to confirm IRCPro application setup.

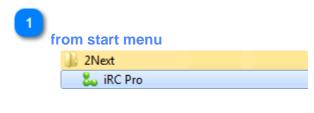
First run - Licensing

To use iRC Pro with full functionalities, you need to insert a valid license and activate it. Here below it is explained the procedure to install the software.

_ step 1 - Run iRCPro

from Desktop 2	RC Pro		
	Default Programs Desktop Gadget Gallery Internet Explorer Microsoft Security Essentials Windows Anytime Upgrade	francesco	
from start menu 1	Windows Fax and Scan Windows Update XPS Viewer XPS Viewer XPS Viewet	Documents Pictures	
	& iRC Pro Accessories	Music	
	Games B Maintenance	Computer	Applied Street
	Microsoft SQL Server 2008	Control Panel	
	Thermo Foundation 3.0	Devices and Printers	
	🕌 Thermo Xcalibur	Default Programs	
		Help and Support	
	1 Back		
	Search programs and files	🕐 Shut down 🕨	
	👌 🤌 📋		

If the application doesn't start automatically, run iRCPro from start menu.





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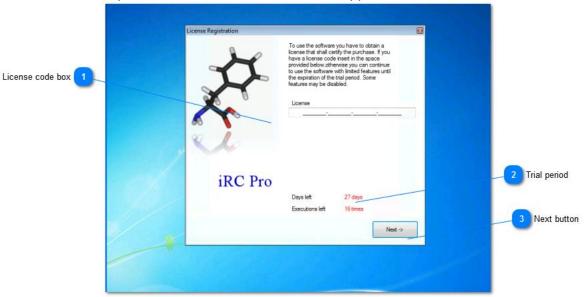
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step 2 - Licensing

iRCPro needs a license to run with fully functionalities.

If you don't have a license code you can ask for one license with an email to info@2next.it You have 30 days (or 20 executions) to obtain a license otherwise the application stop to run.

If you have a license code paste it into License box and press Next button. If license code is invalid please contact **info@2next.it** for support.



icense c	ode hov	e		
License				
License				
	-	-	-	

Here you have to insert your license code.

2 Trial period	
Days left	27 days
Executions left	16 times

Here you can check how times you can use iRcPro software until trial expiration.



step 3 - Activation

When you insert you license code you have 60 days to register and activate your license. During these 60 days you can use iRCPro with full functionalities. After 60 days the Demo mode starts.

To register your license you have to send to info@2next.it your ID code.

As reply to your ID code you obtain from 2NEXT support the Activation code. You have to paste it in the Activation box to register and activate your license.

License code 1		Attivazione licenza	8
ID Code 2	3	X	Your license has not been activated. Activation allows you to use the software in its complete functionality. (Currently you can only activate the license manually. Send the ID code to technical support in the box below and enter the activation code received.)
Activation code 3	Xealibur	X	License
	XReport		ID: Activation Code
X	Dix ratarence	iRC Pro	Days left 60 days Executions left -
			Next ->
	1		
	🥹 🍐 🗒	80	

1	License code
2	ID Code ID:
	This is the ID Code you have to submit to 2NEXT support to obtain Activation code.
3	Activation code Activation Code

In reply to your ID code you obtain from 2NEXT support the Activation code. You have to

iRC Pro User manual

paste it in the Activation box to register your license.

First run - Create the database

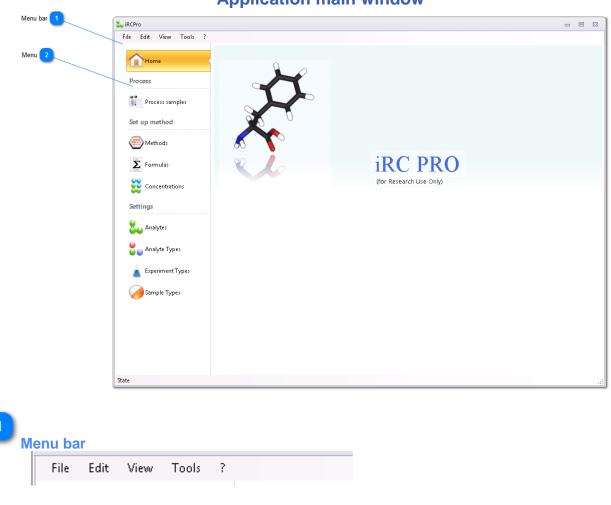
Before using the software Pro iRC you need to create the database file. Otherwise you can import a previous backup file: to know how to do that go to Restore a Database chapter. These are the steps to create the database:

- 1. Open options dialog
- 2. Click on Create the database in the General Tab
- 3. Click Ok when the dialog "Creation successfully"
- 4. Click Ok then Click Ok again

Warning: We advise you to go to <u>Options section</u> and read how to configure your iRC Pro application based on the instruments and customer informations.

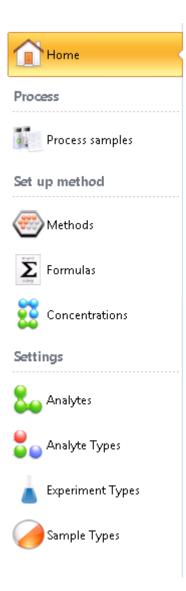
User Interface

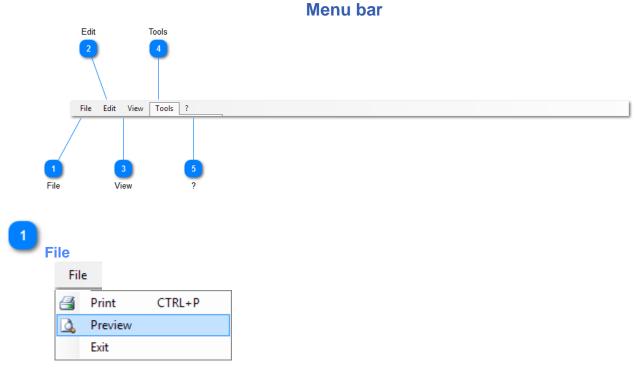
Read the topics bellow to learn how to use the iRC Pro software.



2 Menu

Application main window





• Print

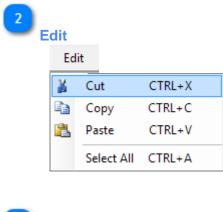
to Print the default report of the current window

Preview

to show Preview dialog of the default report of current window

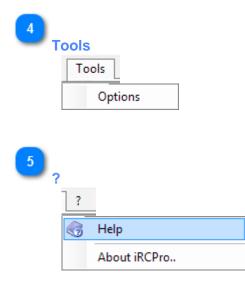
• Exit

To exit the application



3 _v	iew
	View
	✓ Status bar

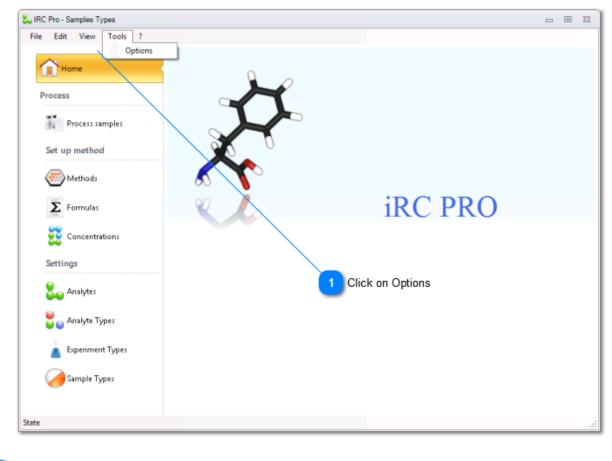
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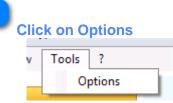


Options dialog Read the topics bellow to learn how to configure the iRC Pro software.

Ho to open Options dialog

Click On Tools from menu bar and so click on Options menu.





General options	
23	2 Reset Connection button
on Export	/-
Source=.,Initial Catalog=IRCPrdIntegrated Security=True	3 Test Connection button 4 Create Database button
Create Database Restore Database Backup Database	5 Restore Database butto
7 8	
	an Export Source=.;Initial Catalog=IRCProfIntegrated Security=True Reset Connection Create Database Restore Database Backup Database Ok Cancel



Update Database button

Update Database

Update Database button verifies database schema and if necessary it updated the database. It's not necessary to do this manually because iRC Pro automatically verifies and updates database schema each time the application is launched. It's necessary to do manual update after a database is restored to avoid application restart.



Reset Connection button

Reset Connection

Reset Connection button restores database connection to default.

Test Connection button
 Test Connection
 Test connection and confirm you if the database status is ok.

Create Database button

Create Database button can create a database. The name of database is the same contained in the Connection String. If a database with the same name already exists, an error occurs: in this case try using a different name.



5

Restore Database button

Restore Database

Restore Database button asks for a database backup file and restores it. It can used to restore the database after some wrong operation (e.g. some data deletion).

6

Backup Database button

Backup Database

Backup Database button makes a database backup file. You can use the backup to do a copy of your data and store it in a safe place (e.g. external storage).

7	k button	
U	K Dutton	-
	Ok	
	To close o	ptions dialog



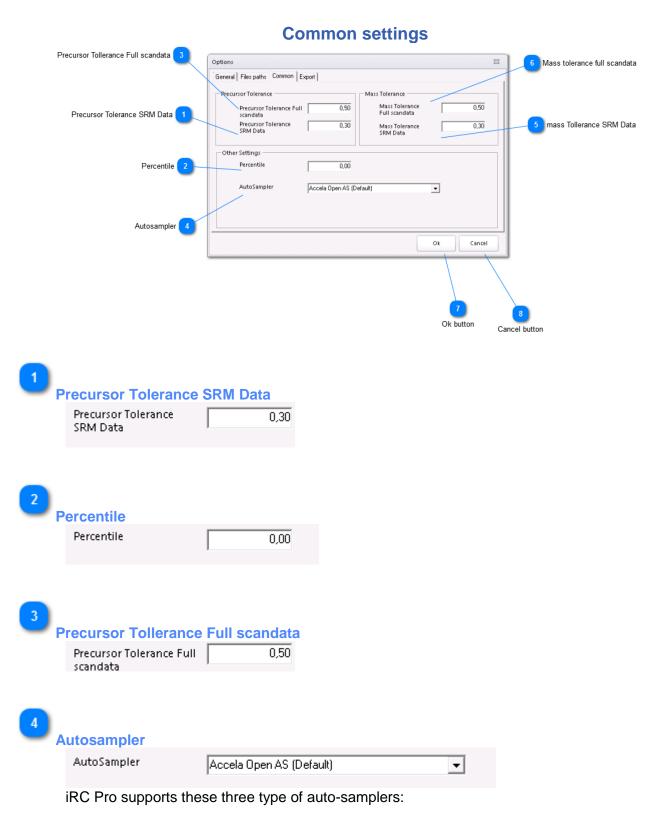
to close options dialog without save settings.

	Options			2	23
Data file path 2	General Files paths Common Export				
_	Data file path				
	Data file path:				
Import file path 🚺					
	Interface paths				
	Import file path				
			Ok	Cancel	
		Ok b	utton	Cancel but	ton
		OK D	atton	Cancer but	ton
Import file path Import file path				1	
,	nere to import the external results file				
Data file path					
Data file path: 📗					
	sert the folder path where your sample raw f	iles are	placed	by the sof	tware
instruments.					
Ok button					
Ok					
Cancel button					

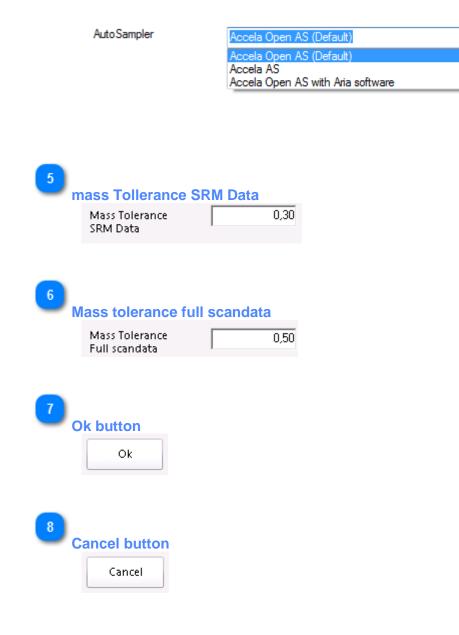
File paths tab

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Cancel



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•

		Export O	ptions dialog	
	Automatic exp	port checkbox		
Default export folder 2	Options General Files paths Co	mmon Export	53	Information to export
Export format 3	Automatic export a Default export fold Default export form ExcelML Filename (compose [date:d-mm-yyyy] [d] identity of proce [date:d] shot do proce [date:d] shot date d] hond date [date:d] shot date d] hong dat [date:d] shot date date data [date:MM-ddyy] [name] name assign	tter a batch/offline processing er hat with keywords listed below) ssing ssing s format outsom date format d to the processing	Info to Export V Header (test name) Header (reference range) V Higlight outbound results (only excel) V Sample Id V Sample Type	5 Header - test name 6 Header - reference range 7 Highlight outbound results 9 Sample id
	Eg: 27-22-2014.x		Ok Cancel	10 Sample type
			12 13 Ok button Cancel	

1

Automatic export checkbox

Automatic export after a batch/offline processing

If you check this option, IRcPro automatically creates an export file after each batch/offline processing. The file will be created in the export folder specified in the textbox below and using the selected format.

2

Default export folder

Default export folder

This is the folder path that iRcPro uses as default folder to export results file. You can change insert the full path manually or click on the nearby button to select the folder.

This path is used by IRcPro to create the result files automatically after each batch/offline processing (see above)

When you export file manually IRcPro starts from this folder path but you can change before confirm.

3	Export format	
	Default export format	
	ExcelML	-
	This is the default export You can choice from thes	

• Excel

the export file will be an Excel file (.xls). Use this option only if you have Microsoft Excel (2000 or an early release) installed on your pc, otherwise IRcPro will not be able to complete the export.

• ExcelML

the export file will be an xml file that can be read from Microsoft Excel or Openoffice. Use this option if you don't have Microsoft Excel installed on you IRcPro pc.

• PDF

Using this format IRcPro will create a pdf file. You need a Pdf Reader to open the file (e.g. Adobe Reader)

• HTML

Using this format IRcPro will create an html file that you can open using your browser.

CSV text file

Using this format IRcPro will create a csv text file (comma-separated values). You can use this format to export results to other software.

4

Information to export

-Info to Export

- Header (test name)
- Header (reference range)
- Higlight outbound results (only excel)
- 🗹 Sample Id
- 🔽 Sample Type
- ✓ Vial position

You can choice which information export in the file. See each option below.

5

Header - test name

🗹 Header (test name)

Check this option if you want IRcPro will create a header row.

6

Header - reference range

🗌 Header (reference range)

Using this option IRcPro will create two rows with reference range for each test.



Highlight outbound results

Higlight outbound results (only excel)

Using this option IRcPro will highlight any value that is outside of the reference range using a red background color.

This option is available only if you choice the excel format.

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Filename (compose with keywords listed below)

[date:dd-mm-yyyy] [id] identity of processing [date] date of processing [date:d] short date format [date:g] long date format [date:MM-dd-yy] custom date format [name] name assigned to the processing

Eg: 27-22-2014.xml

You can specify a format for the file name to use for export file. You can combine the information listed above to generate your custom file name. In the Example text box you can preview which will be the filename based on your choices.

```
9
```

Sample id

🗹 Sample Id

Using this option IRcPro will export in the file the id of each sample.

10

Sample type

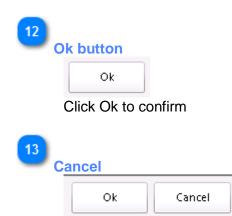
🗹 Sample Type

Using this option IRcPro will export in the file the sample type of each sample.

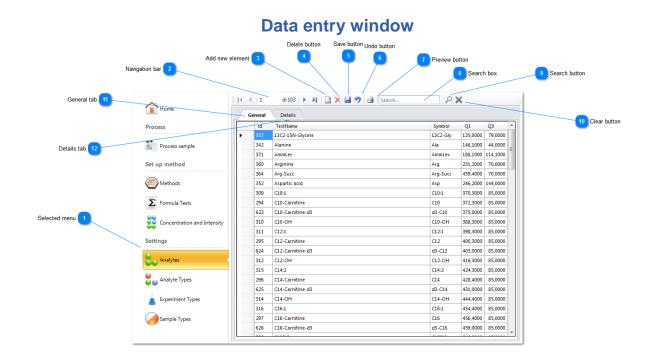
vial position

Vial position

Using this option IRcPro will export in the file the position in the tray of each sample.



Click Cancel to close the window and discard changes.



1 Selected menu

It is highlighted when you choose a menu.

2

Navigation bar

🛛 🖣 🗍 di 103 🕨 🔰

You can move the selected item forward, backward using this button. You can also go to first or last item of the list.

The counter shows the position of current item and the number of items in the list.

The position is related by the sort order used by default. In the example, the items are sorted by Name.

Add new element

Click here to add a new element.

Delete button

 \times

Click here to delete the selected item. A dialog window asks you to confirm.

Warning: a deleted item cannot be restored.

Save button

H

Click here to save changes to database. The main title bar tells you if there are some unsaved changes.

If you move to other window a dialog window asks you to save changes data.

6

5

Undo button

9

Click here to remove changes and return to your previous saved data.

1

Preview button

3

Click here to show a preview of the related report.

8

Search box

Search...

Insert here a search text. Depend of type of data, the search text can be used to filter data by name, description or other information.

If you enter 3 or less characters will show only items whose name or description **begins** with those characters.

If you enter more than 3 characters will show all items whose name or description **contains** the search test.

9

Search button

2

Search button performs filtering by inserted text.

10

Clear button

×

Clear search text box and show no filtered data.

11

General tab

General

Go to General tab. In this tab data items are shown in a grid. Only main information is shown.



This shows Details tab. In the details all data of the selected item are shown.

	Gen	eral	Details					
		id 1	estName	Symbol	Q1	Q3	*	
	/	57 13	C2-15N-Glycine	13C2-Gly	135,0000	79,0000		
	3	42 A	anine	Ala	146,1000	44,0000	=	
	3	71 A	nmLev	AmmLev	188,1000	114,1000	-	
	3	60 A	ginine	Arg	231,2000	70,0000		
	3	64 A	g-Succ	Arg-Succ	459,4000	70,0000		
	з	52 A	partic acid	Asp	246,2000	144,0000	4,0000	
	з	09 C	C10:1 C10:1 370,3000 85,0000	1 Sort by colu				
	2	294 C10-Carnitine C10	C10	372,3000	85,0000			
d item	e	23 C	0-Carnitine-d3	d3-C10	375,0000	85,0000		
	з	10 C	0-OH	C10-OH	388,3000	85,0000		
	3	11 C	2:1	C12:1	398,3000	85,0000		
	2	95 C	2-Carnitine	C12	400,3000	85,0000		
	e	24 C	2-Carnitine-d3	d3-C12	403,0000	85,0000		
	3	12 C	2-OH	C12-OH	416,3000	85,0000		
	3	15 C	4:2	C14:2	424,3000	85,0000		
	2	96 C	4-Carnitine	C14	428,4000	85,0000		
	e	25 C	4-Carnitine-d3	d3-C14	431,0000	85,0000		
	3	14 C	4-OH	C14-OH	444,4000	85,0000		
	з	16 C	6:1	C16:1	454,4000	85,0000		
	2	97 C	.6-Carnitine	C16	456,4000	85,0000		
	e	26 C	l6-Carnitine-d3	d3-C16	459,0000	85,0000		

General Tab

1

Sort by column

TestName

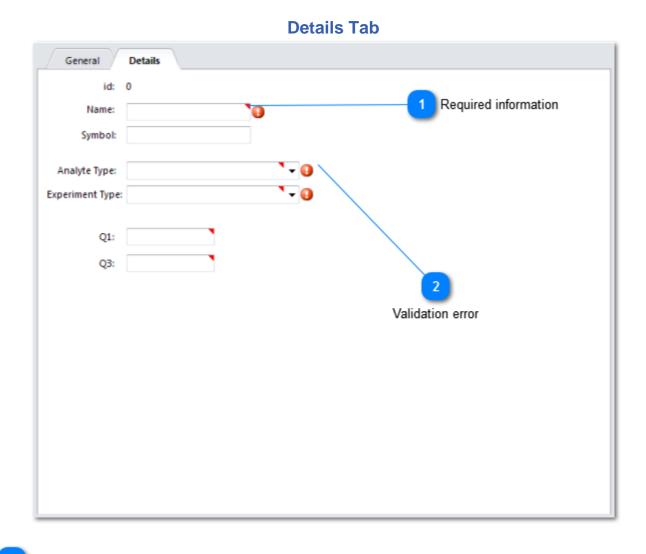
Clicking on the column header, data items will be sorted. First click order data by ascending order; second click order data by descending order.

Column width can be resized manually. Also column header position can be moved.

2

Selected item

• 357 13C2-15N-Glycine This is the selected item. 13C2-Gly 135,0000 79,0000



Required information

This red triangle means that the field is required. If you leave it blank a validation error occurs.

2

Validation error

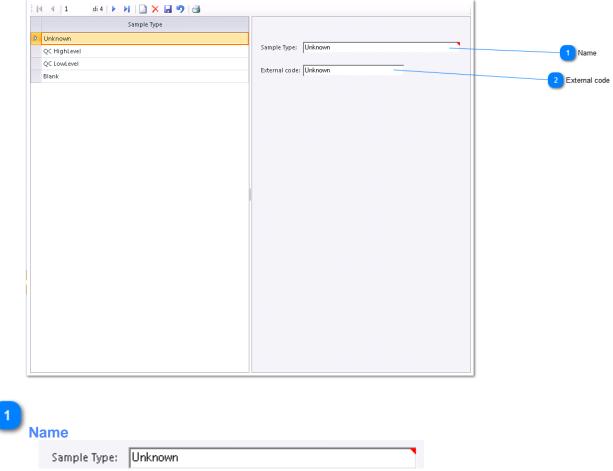
Θ

If saving data, there is any error will be shown a flashing icon. In the example no data has been inserted in the required filed.

Until all validation exceptions are resolved you cannot save data.

42

Settings windows Before create your method you have to create types and analytes.



Name of Sample Type (Required)

2

External code

External code: Unknown

Here you should enter the code of the Sample type used in instruments software (e.g. Xcalibur)

Sample types windows

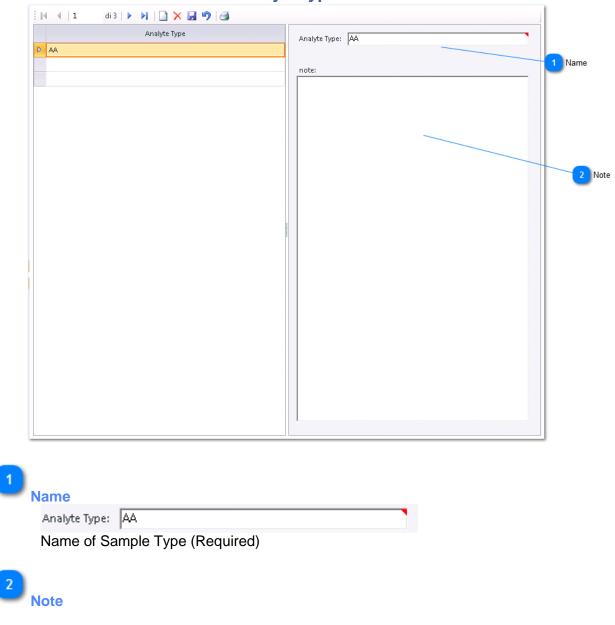
	Expe	eriment types	
i ∢ ∢ 1 di 4 ▶ ▶ □	× 🖬 🄊 🖂		
Experiment Type			1 Name
D SRM	Experiment Type:	SRM	
NLr	Description:	SRM	
PS	Description.	511M	
rtrtrtrt			2 Description
	Single Reaction Monitoring:	MS2 Scan	
	Monitoring:	[]	
	External code 3		

Warning! Experiment types are special information linked closely to instrument software. Experiment types are automatically created with the database. You shouldn't add or delete experiment types. The only information you could have need to edit is External code to match the related code in instrument software.

1 Name	
Experiment Type: SRM	
Name of experiment type (required)	
2 Description: SRM	
Description of Experiment type	

3 External code	
Single Reaction Monitoring:	MS2 Scan

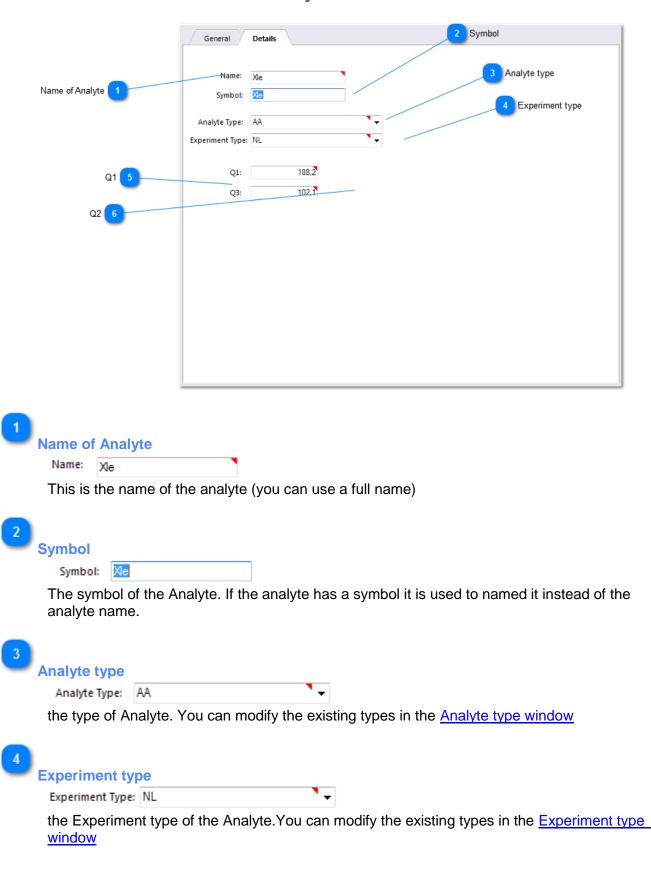
Here you should enter the code of the Sample type used in instruments software (e.g. Xcalibur)



Analyte types windows

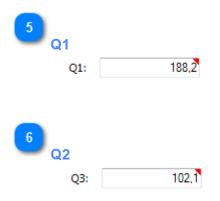
note:

Here you can insert notes and comments.

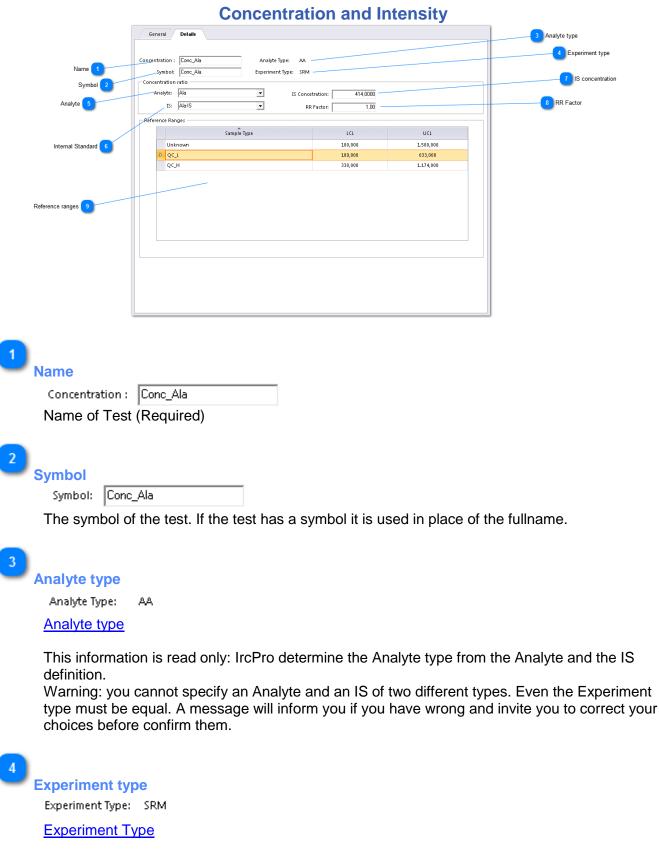


Analytes window

iRC Pro User manual



Set up methods windows Now you have to create your analysis method. A method is a group of test.



definition.

Warning: you cannot specify an Analyte and an IS of two different types. Even the Experiment type must be equal. A message will inform you if you have wrong and invite you to correct your choices before confirm them.

5 Analyte Analyte: Ala	•
6 Internal Standard IS: Ala-IS	•
D. 000	
7 IS concentration IS Concetration: 414,0000	
8 RR Factor	
RR Factor: 1,00	

Concentration ratio

The concentration calculation is based on this formula:

$$C = \frac{Analyte}{IS} C_{IS} R_r$$

where Analyte is absolute value of the Analyte IS is the absolute value of the IS Cis is the IS concentration Rr is the RR Factor

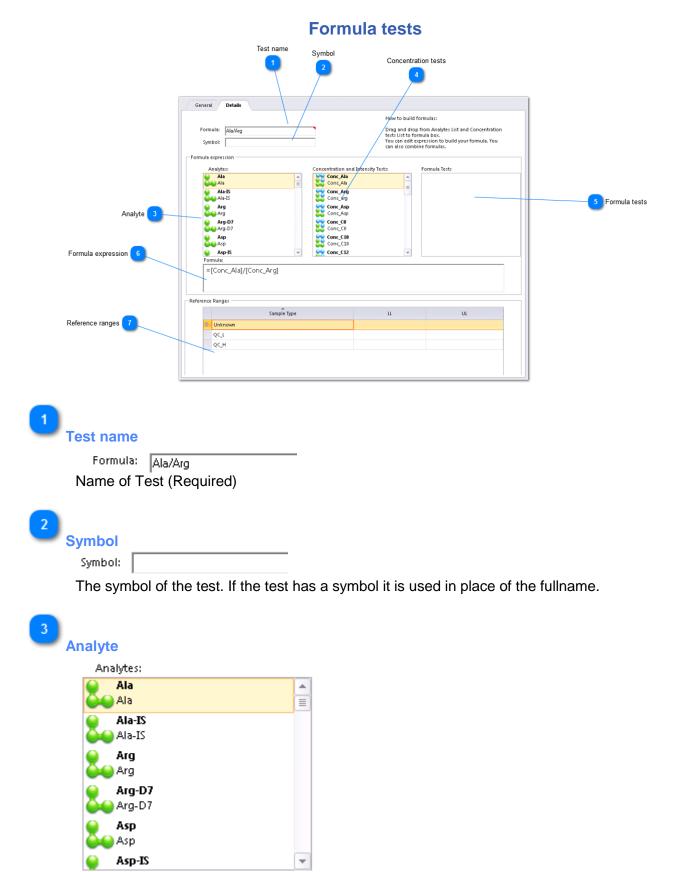
9 Reference ranges

	Sample Type	LCL	UCL
	Unknown	100,000	1.500,000
D	QC_L	189,000	633,000
	QC_H	330,000	1.174,000

Here you can specify the reference range for each sample type

LCL is Low Concentration Level and if it's empty IRCPro assumes that there not a low level. UCL is High concentration Level and if it's empty IRCPro assumes that there not a high level. For example, if the range concentration values are 100 and 180, IrcPro highlight any values above 180 or below 100 and it assume that any values betwwen 100 and 180 are negative.

Warning: you cannot add a new sample type here. To do this, you have to add in the Sample Type window; automatically IrcPro will create for you a reference range for the new sample type without LL and UL values.



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To use an Analyte simply drag and drop it in the Formula textbox and edit it to complete the desired expression.

4

Concentration tests

Concentration and Intensity Tests:

Conc_Ala Conc_Ala	
Conc_Arg Conc_arg	
Conc_Asp Conc_Asp	
Conc_CO Conc_CO	
Conc_C10 Conc_C10	
Seconc_C12	-

You can combine Analyte, Concentration or Formulas in your mathematical expression. Above there is the list of concentrations tests

To use a Concentration simply drag and drop it in the Formula textbox and edit it to complete the desired expression.

5

Formula tests

Formula Tests



You can combine Analyte, Concentration or Formulas in your mathematical expression. Above there is the list of formula tests

To use a Formula simply drag and drop it in the Formula textbox and edit it to complete the desired expression.

Warning: it's not supported to combine a formula within another formula and to create a recursive expression.

Formula expression

6

Formula:

=[Conc_Ala]/[Conc_Arg]

The formula expression. To build it drag & drop Analyte, Concentrations or other Formula in the Formula box. You can select and delete a test using button.

You can use mathematic operands (+,-,/,*), brackets ("(",")"), functions (**sqr** for square root,**abs** for absolute,etc) according to VBA (Visual Basic for Application) language (used for example by Microsoft Access).

7

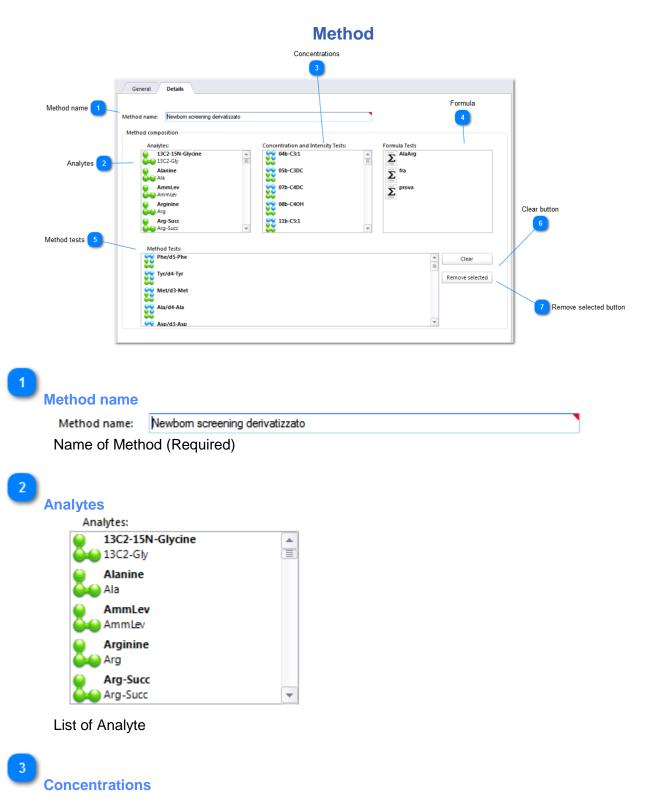
Reference ranges

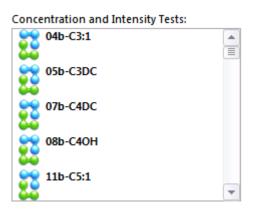
wn	

Here you can specify the reference range for each sample type

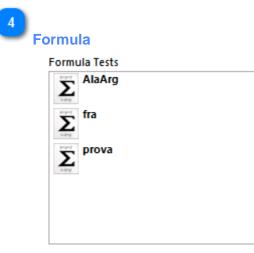
LCL is Low Concentration Level and if it's empty IRCPro assumes that there not a low level. UCL is High concentration Level and if it's empty IRCPro assumes that there not a high level. For example, if the range concentration values are 100 and 180, IrcPro highlight any values above 180 or below 100 and it assume that any values between 100 and 180 are negative.

Warning: you can add a new sample type here. If you need to do it, you have to add in the Sample Type window. Automatically IrcPro create for you a reference range for the new sample type without LL and UL values.

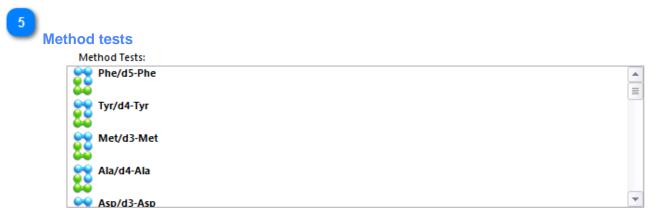




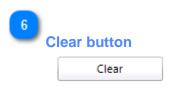
List of Concentrations



List of Formulas



List of selected tests. To build your method select and drag concentration tests, other formula tests or analytes.



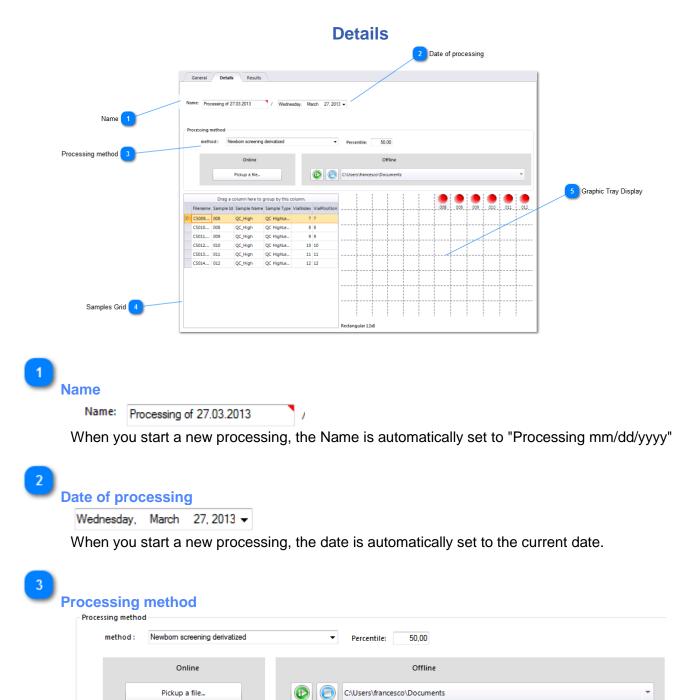
Remove all tests from this method



Remove only selected test

Processing window

Read the topics bellow to learn how to process data and produce results.

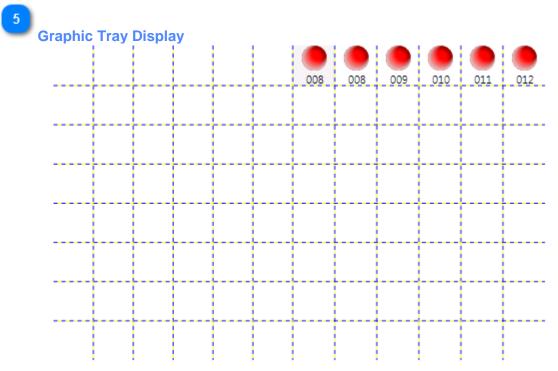


Here you can import and process samples. More details in Processing section



	Drag a column here to group by this column.								
	Filename	Sample Id	Sample Name	Sample Type	VialIndex	VialPosition			
D	CS009	008	QC_High	QC HighLe	7	7			
	CS010	008	QC_High	QC HighLe	8	8			
	CS011	009	QC_High	QC HighLe	9	9			
	CS012	010	QC_High	QC HighLe	10	10			
	CS013	011	QC_High	QC HighLe	11	11			
	CS014	012	QC_High	QC HighLe	12	12			

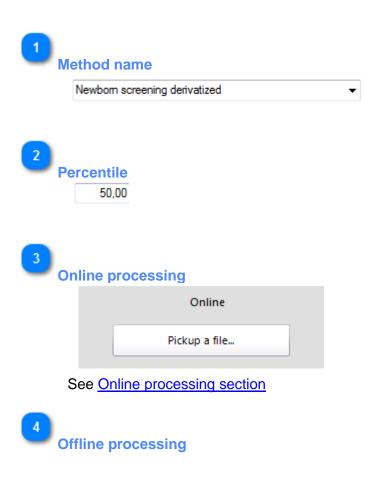
Each processed sample is shown in the Samples Grid as Sample ID, Sample Name and Type and Vial position and Tray number.

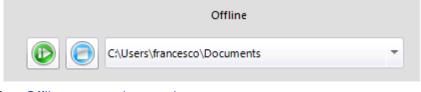


The processed samples of the tray are displayed in this Grid. Below the red circle is the sample id.

	Proce	essing
Method name	F	Percentile 2
Proc	method : Newborn screening derivatized	▼ Percentile: 50,00
	Online Pickup a file	Offline C:\Users\francesco\Documents
0	3 nline processing	4 Offline processing

- To process one or more sample you should : 1. choose a method
- 2. choose a processing method: Online or Offline





See Offline processing section

Offline method

Offline method processes a sample manually. Can be processed only one file at a time To start offline processing you have to :

1. click on Online button



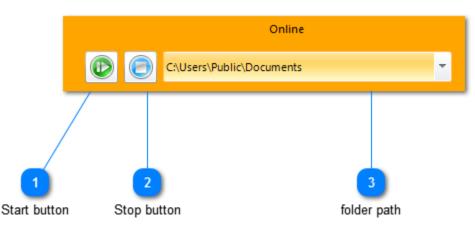
- 2. choose a raw file or txt file
- 3. when the file is processed it will be show in the Sample Grid and Results Grid.

Online method

Online processing method permits to import and process multiple samples file automatically. It scans a folder and when a new file (raw or txt file) appears, it's automatically imported and processed. To start online processing you have to:

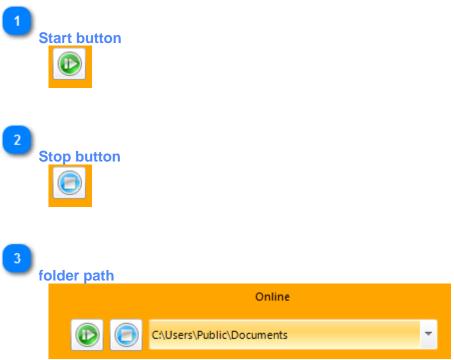
1. choose folder path

(by default the folder path is the same of import files path in the <u>Option dialog</u>. You can change it clicking on folder box or by the Options dialog.)

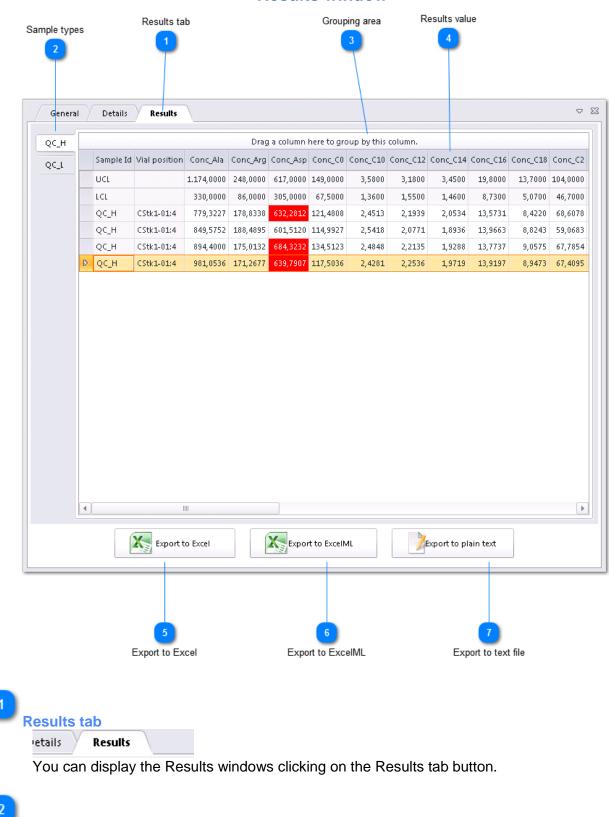


2. Click on Start button

- (background activities are reported in the status bar)
- 3. Click on Stop button to end processing



By default the folder path is the same of import files path in the <u>Option dialog</u>. You can change it clicking on folder box or by the Options dialog.



Results window

Sample types

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3

Grouping area

Drag a column here to group by this column.

Here you can drag and drop a column to group data. To remove grouping drag and drop the column outside the grid

4

Results value

	Sample Id	Vial position	Conc_Ala	Conc_Arg	Conc_Asp	Conc_C0	Conc_C10	Conc_C12	Conc_C14	Conc_C16	Conc_C18	Conc_C2
	UCL		1.174,0000	248,0000	617,0000	149,0000	3,5800	3,1800	3,4500	19,8000	13,7000	104,0000
	LCL		330,0000	86,0000	305,0000	67,5000	1,3600	1,5500	1,4600	8,7300	5,0700	46,7000
	QC_H	CStk1-01:4	779,3227	178,8338	632,2812	121,4808	2,4513	2,1939	2,0534	13,5731	8,4220	68,6078
	QC_H	CStk1-01:4	849,5752	188,4895	601,5120	114,9927	2,5418	2,0771	1,8936	13,9663	8,8243	59,0683
	QC_H	CStk1-01:4	894,4000	175,0132	684,3232	134,5123	2,4848	2,2135	1,9288	13,7737	9,0575	67,7854
D	QC_H	CStk1-01:4	981,0536	171,2677	639,7907	117,5036	2,4281	2,2536	1,9719	13,9197	8,9473	67,4095

In the Results Grid you can see all samples of the selected sample type and the values for each tests contained in the method you used to process data.

You can sort the values by clicking on a column header. Using right mouse click, you can access to an advanced menu that help you to choice best layout. See the image below.

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						Drag	i a column	here to gro	oup by this	column.
	Sample J		ial nosition		Conc	Arg	Conc_Asp	Conc_C0	Conc_C10	Conc_C12
	UCL	2	Sort Ascen	2		00	617,0000	149,0000	3,5800	3,1800
	LCL		Sort Desce	-		00	305,0000	67,5000	1,3600	1,5500
	QC_H		Clear Sorti	ng		38	632,2812	121,4808	2,4513	2,1939
	QC_H		Condition	al Formattin	g	95	601,5120	114,9927	2,5418	2,0771
	QC_H		Group by t	his column:		.32	684,3232	134,5123	2,4848	2,2135
D	QC_H		Column Cł	nooser		77	639,7907	117,5036	2,4281	2,2536
			Hide Colur	nn						
			Pinned sta	te	•					
			Best Fit							



Export to Excel



To Export data in Excel format use this button.

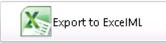
The default file name is created using settings in <u>Export options dialog</u>. However you can choice a different name before save it.

The excel file contains data according to the settings in <u>Export options dialog</u>. You can change these settings to choice which information export in the excel file.

Warning: this button create an excel file (.xls extension). If you don't have Microsoft Excel or software able to open this kind of format file, you should use another export format.

6

Export to ExcelML



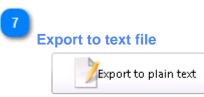
To Export data in ExcelML format use this button.

This button creates an xml file. You can import this file in Microsoft Excel or other spreadsheet software like OpenOffice Calc.

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The default file name is created using settings in <u>Export options dialog</u>. However you can choice a different name before save it.

The file contains data according to the settings in <u>Export options dialog</u>. You can change these settings to choice which information export in the file.



To Export data in text format use this button.

This button creates a text file. This is a CSV (comma-separated values) file and it can be opened by any text editor or imported in Microsoft Excel or other spreadsheet software. If you have to transfer data from IRcPro to other software, you should use this kind of format because very simple and easy to manage.

The default file name is created using settings in <u>Export options dialog</u>. However you can choice a different name before save it.

The file contains data according to the settings in <u>Export options dialog</u>. You can change these settings to choice which information export in the file.