



A handwritten signature in black ink, appearing to read "R. Popov".



LIOFeron

Manual

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1. Introduction

The program LIOferon is used to calculate of the results for the LIOFeron TB/LTBI test of company Lionex.



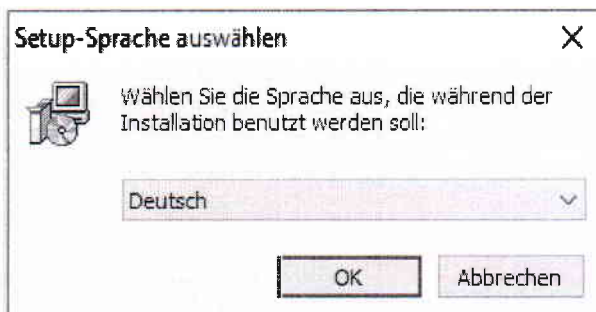
For correct calculation, it is necessary correctly execute the Testauführung according to the manufacturer's instructions.



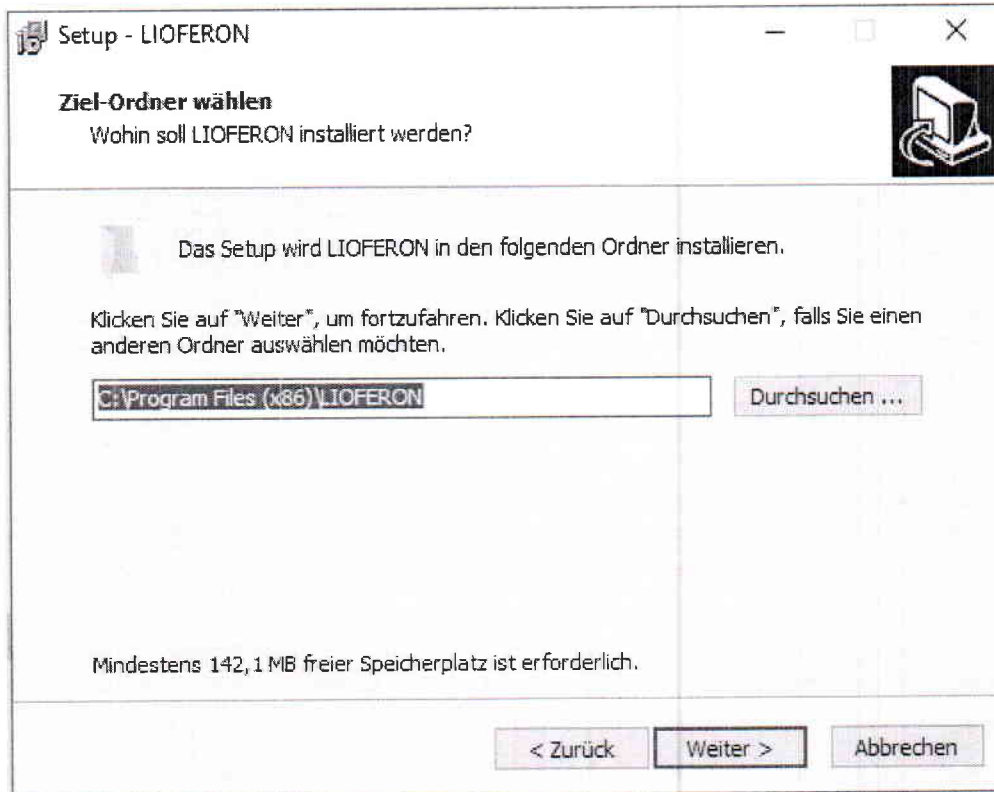
2. Installation

2.1. Program Installation

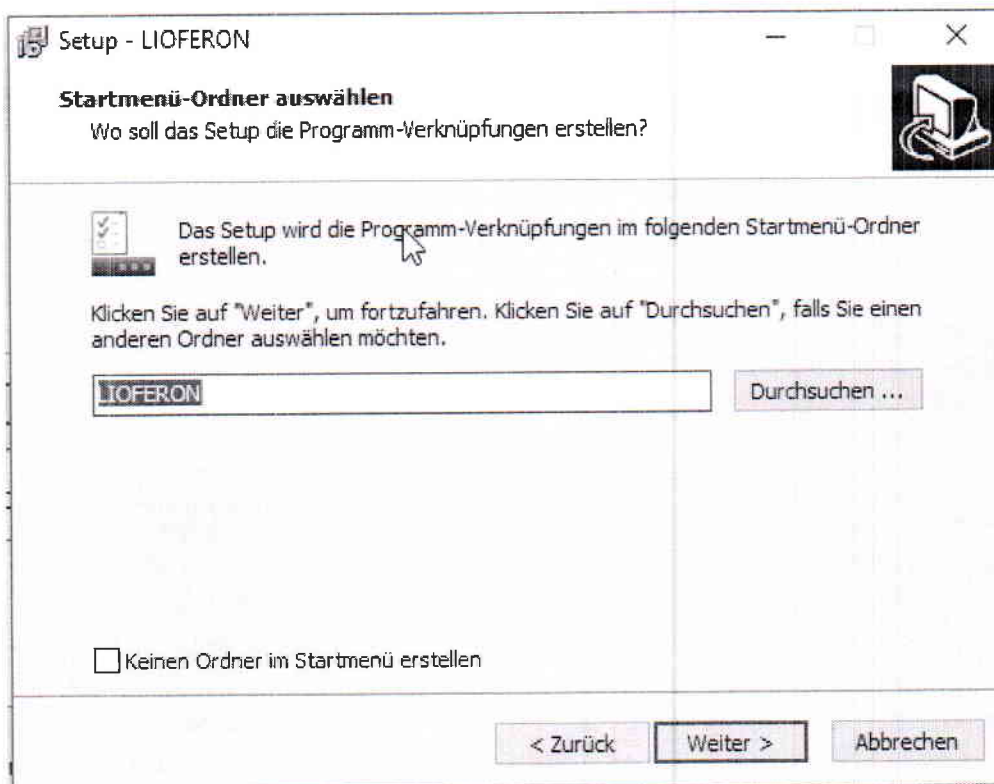
Start the program LIOFeron_setup.exe. Select the Installation language



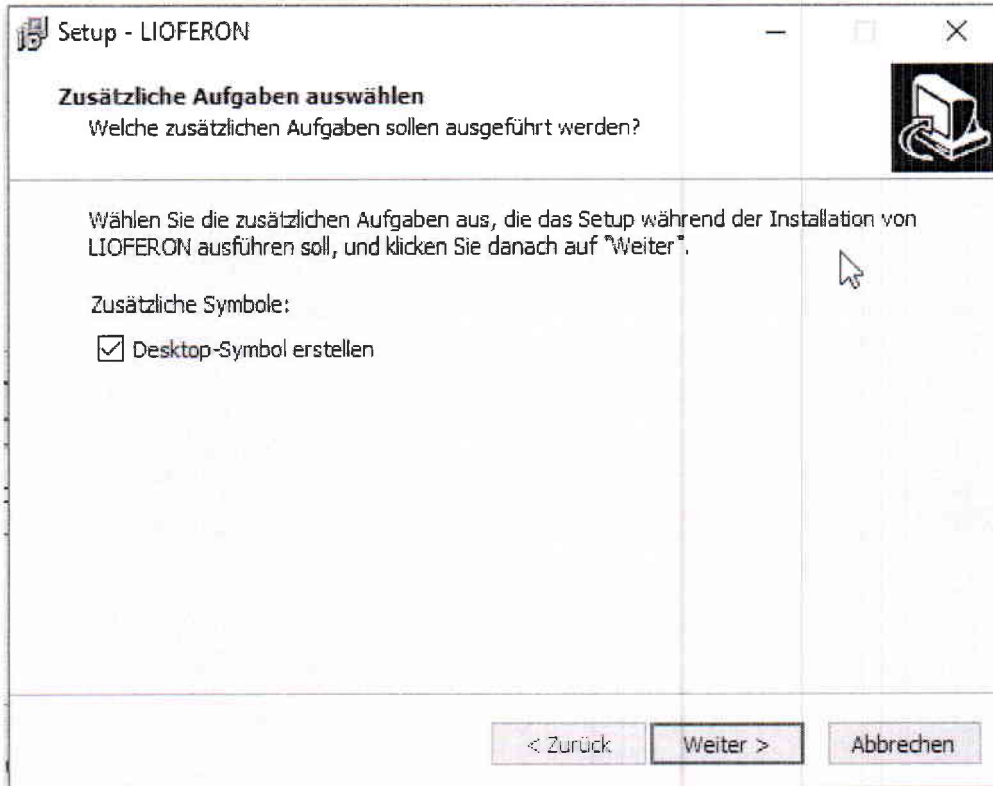
Run the installation wizard.,



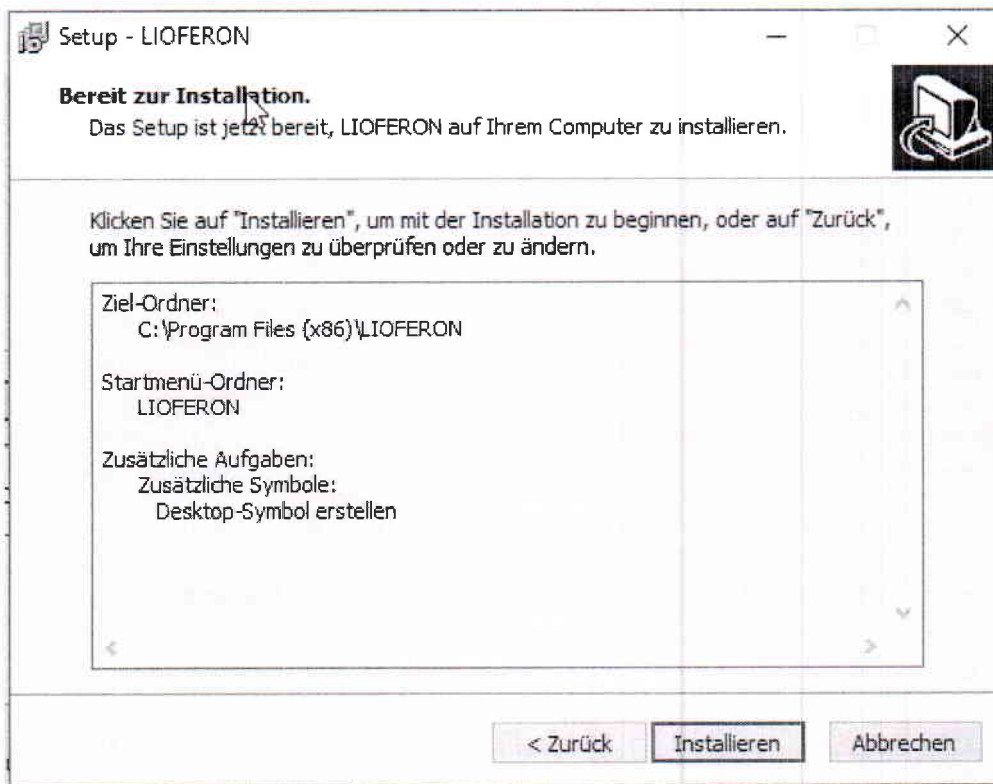
Confirm the start menu folder



Enable the creation of a desktop icon.



Confirm the information about the installation and press install.

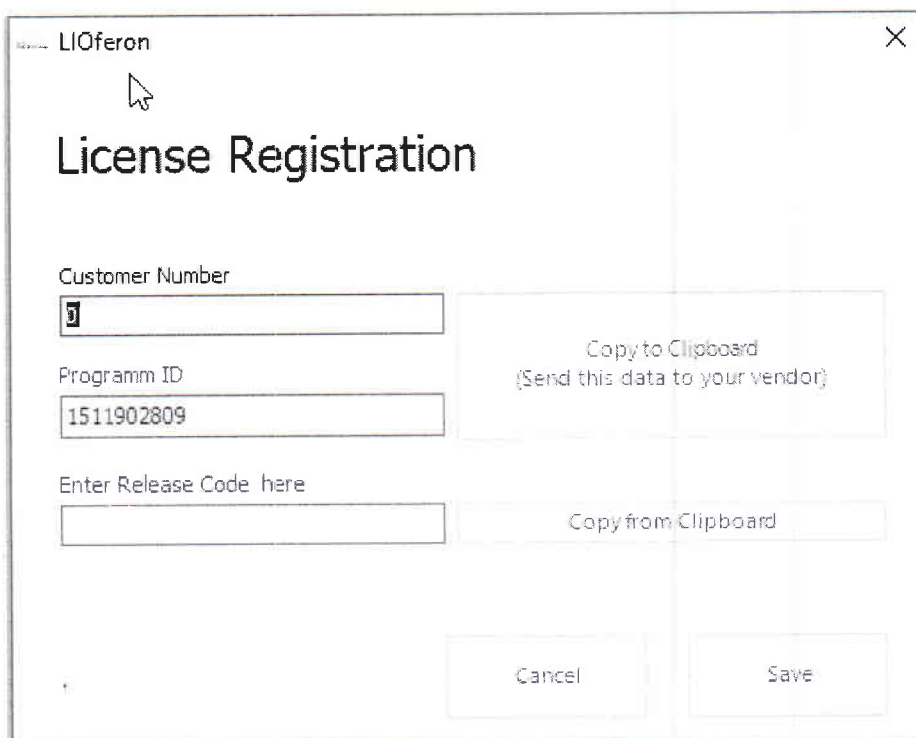


This menu is displayed after successful installation.



2.2. Program Registration

At first startup, you must register the program. Enter your customer number in the area provided and send the data to Lionex.



You can copy the data to the Clipboard using the button and easily insert into an email.

e.g.

Customer number: 1234

machine identifier: 1511902809

The machine Identifier is unique for each PC.

Get an unlock code from Lionex via email. Enter the unlock code in the area provided and press save. Correct unlock code is activated and starts the software.

The unlock code is may be limited. Should the activation code has expired, you are requesting a new code from LIONEX.

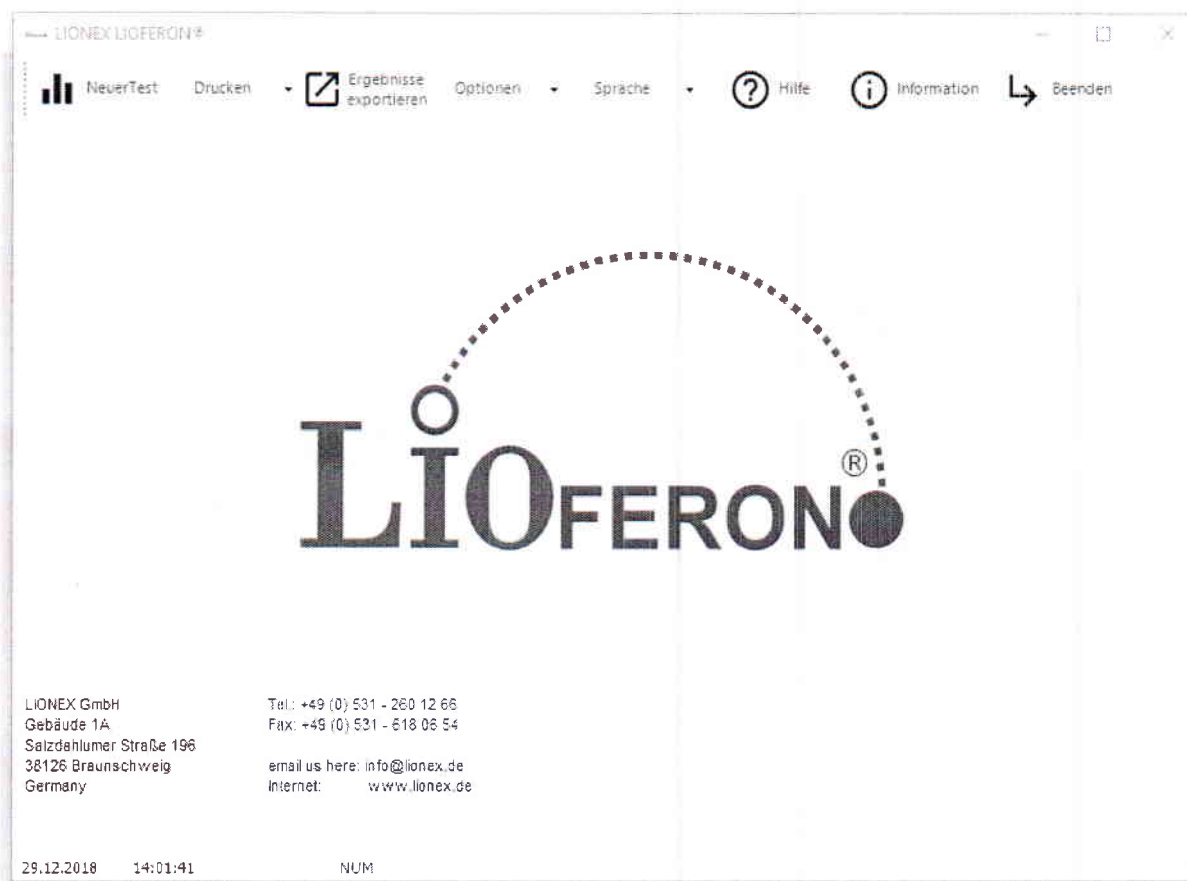
3. Program Usage

3.1. Start of the Program

You can either start the program from the start menu or the desktop shortcut



Main menu

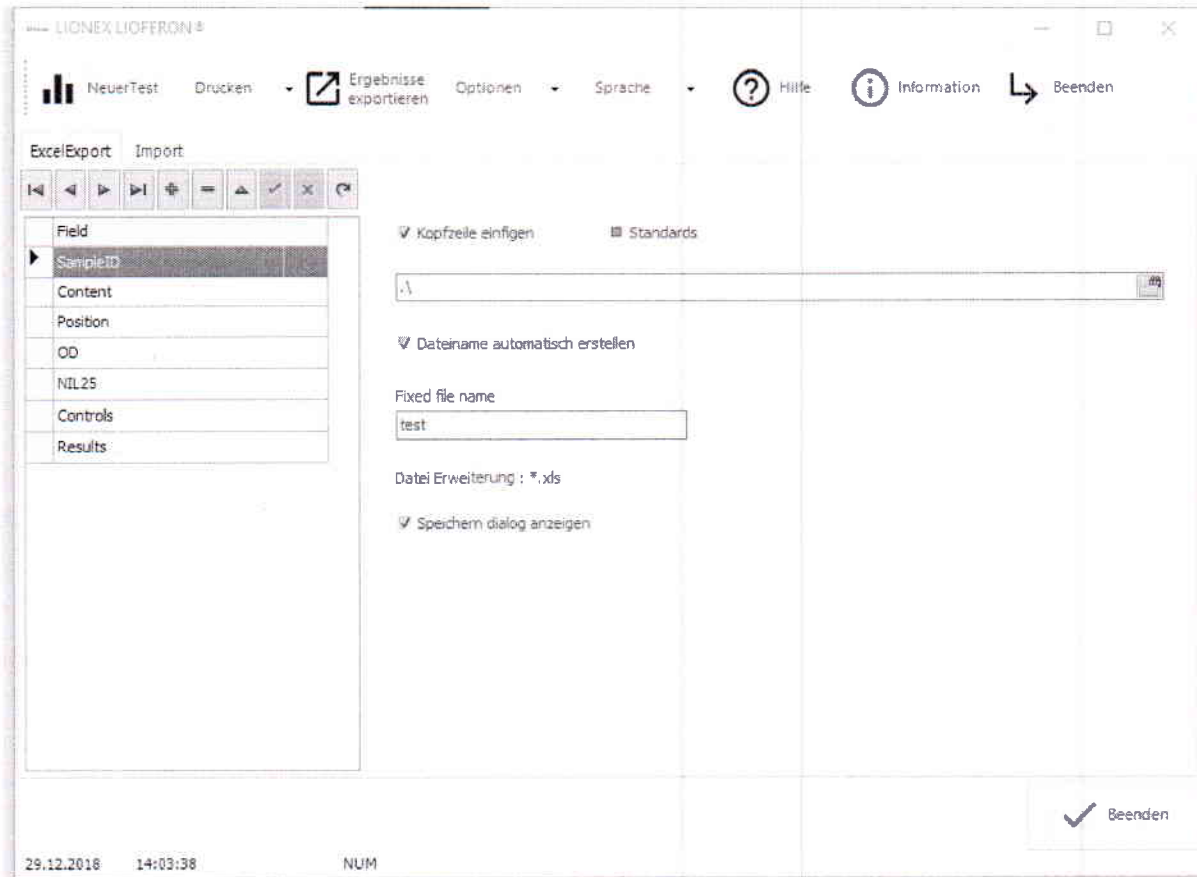


3.2. Options

3.2.1. Excel Export

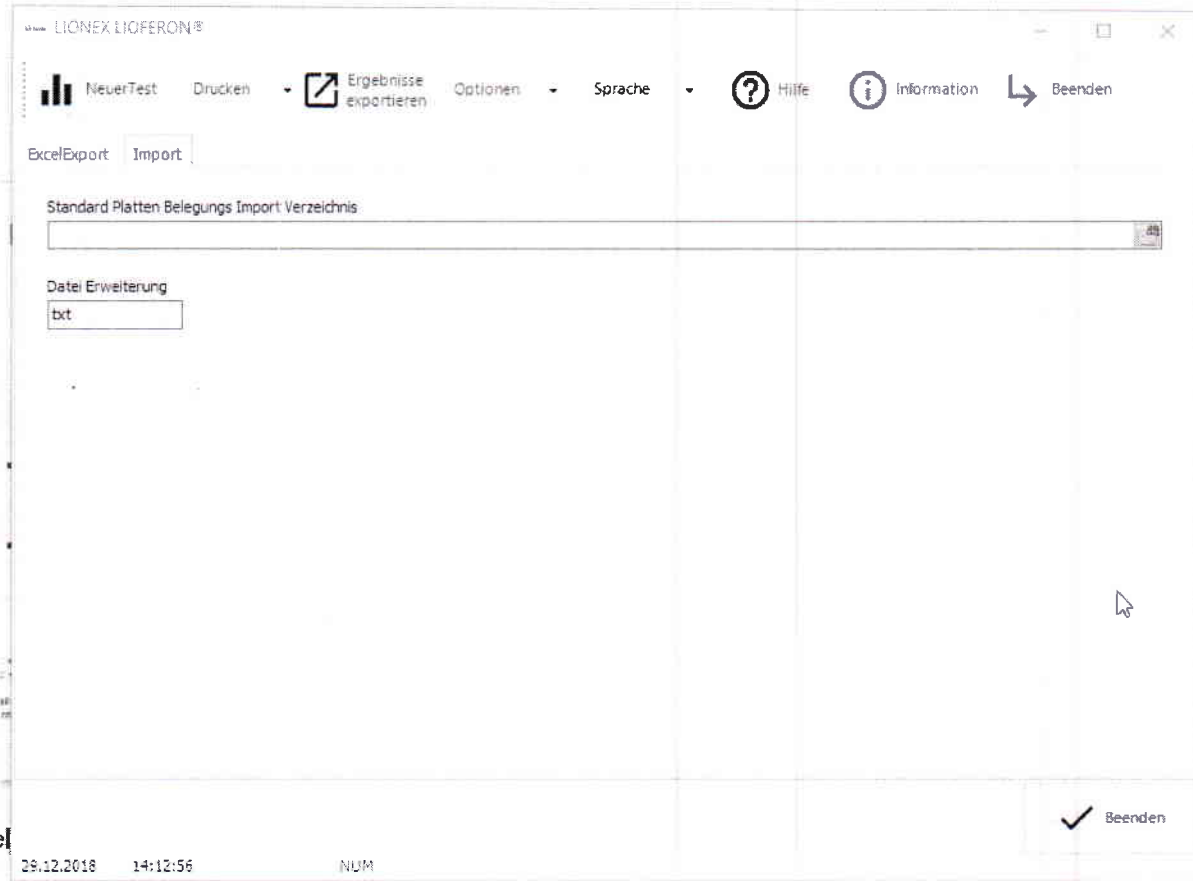
In the menu options/Excel export, you can set the fields that are exported to an Excel file. You can set whether the header and standards are exported. The export directory can also be adjusted.

With the filename option automatically create, create a unique name when saving. Optional the Save Dialog is definable.



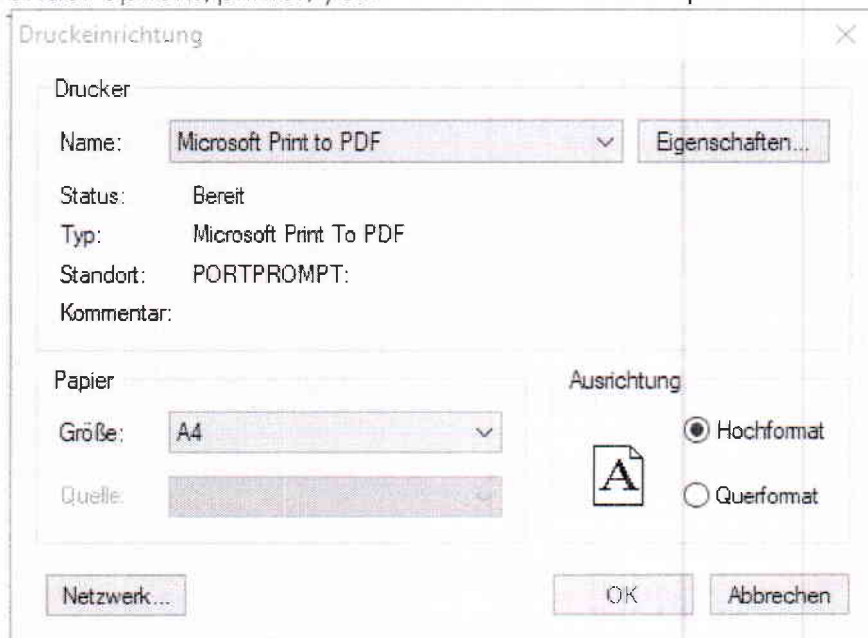
3.2.2. Import

In the import menu you set the directory for the disk usage and the file extension.



3.2.3. Setup Printer

Under options/printer, you can define a default printer

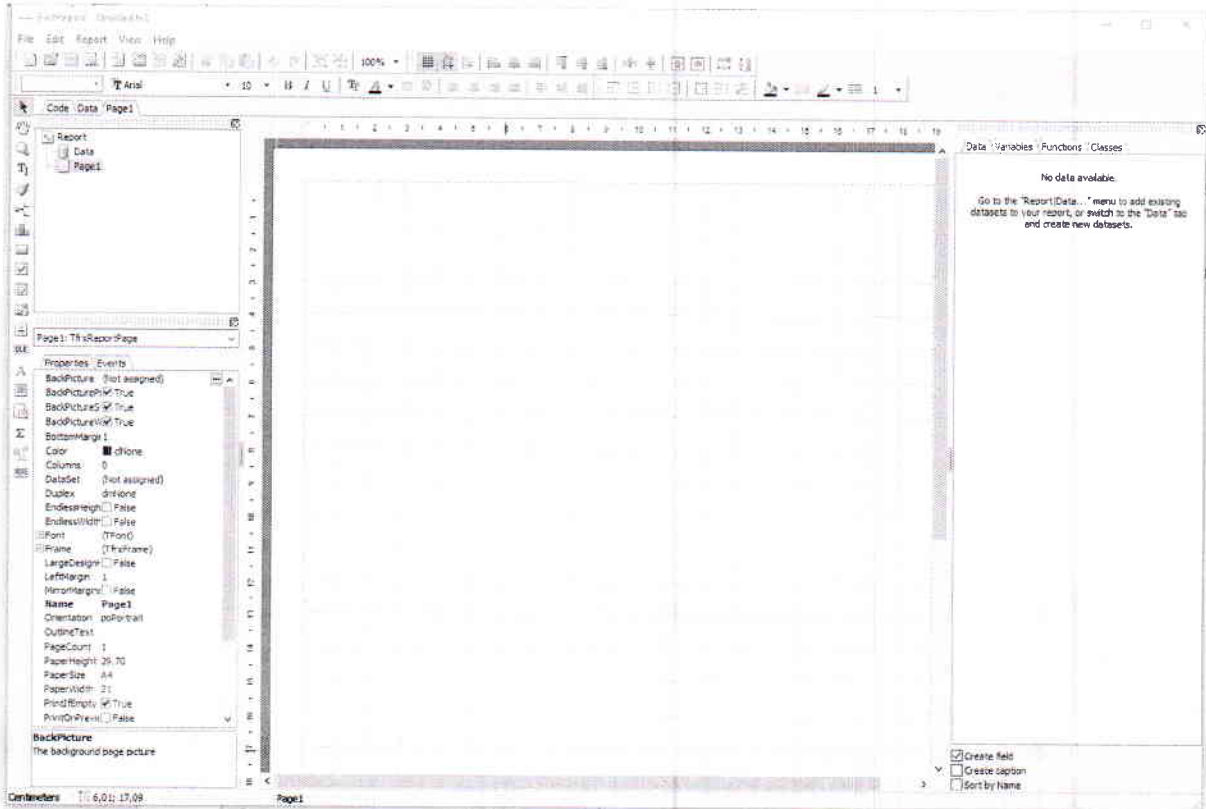


3.2.4. Setup Language

In main menu, you can set the program language.

3.3. Report designer

The program includes a Visual report designer can be used to create a template for an expression.

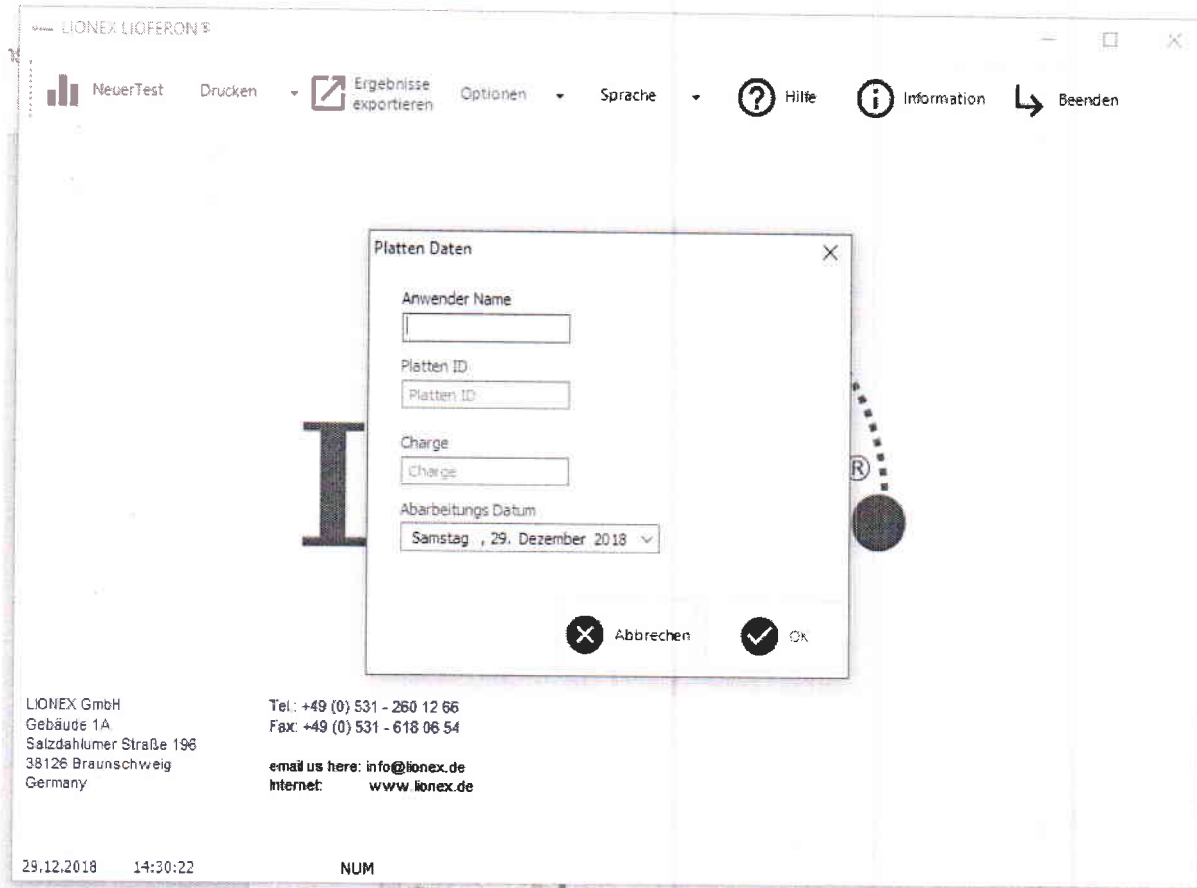


3.4. Resulting

Select new test

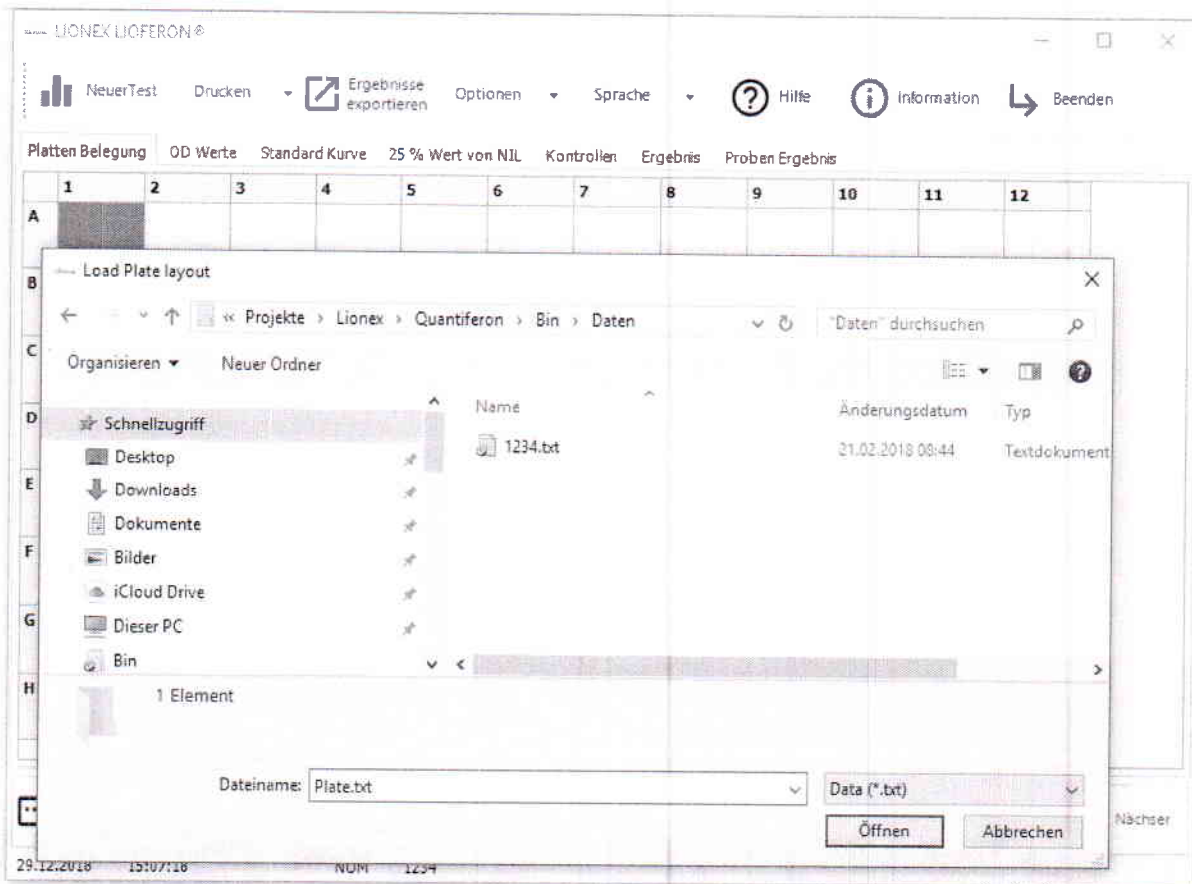


And enter the data into the fields provided, and press OK.



You can then select an import file with the data format (4. Data format) and import.
If you cancel the data import, you can manually assign the plate.

3.4.1. Data import through file



The disk usage and the OD are automatically loaded values, if they exist in the import file.

LIONEX LIOFERON®

NeuerTest Drucken Ergebnisse exportieren Optionen Sprache Hilfe Information Beenden

Platten Belegung OD Werte Standard Kurve 25 % Wert von NIL Kontrollen Ergebnis Proben Ergebnis

	1	2	3	4	5	6	7	8	9	10	11	12
A	1111 NC	1113 NC	1115 NC	S1 S1	S2 S1							
B	1111 TB A	1113 TB A	1115 TB A	S1 S2	S2 S2							
C	1111 TB B	1113 TB B	1115 TB B	S1 S3	S2 S3							
D	1111 PC	1113 PC	1115 PC	S1 S4(Blank)	S2 S4(Blank)							
E	1112 NC	1114 NC										
F	1112 TB A	1114 TB A										
G	1112 TB B	1114 TB B										
H	1112 PC	1114 PC										

Plattenbelegung laden Manuell Plattenbelegung OD Werte von Excel Zwischenablage

29.12.2018 15:08:00 NUM 1234

Vorheriger Nächster

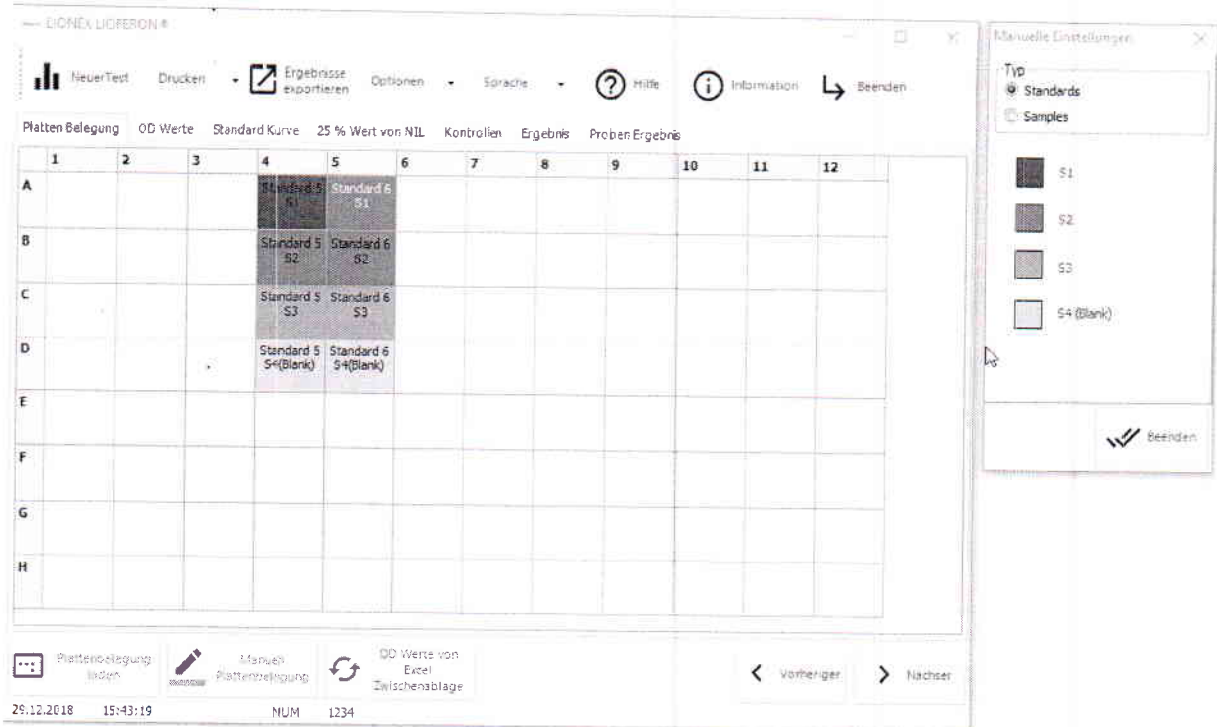
3.5. Manual Plate Layout

If you cancel the data import, you can manually create the layout via the menu



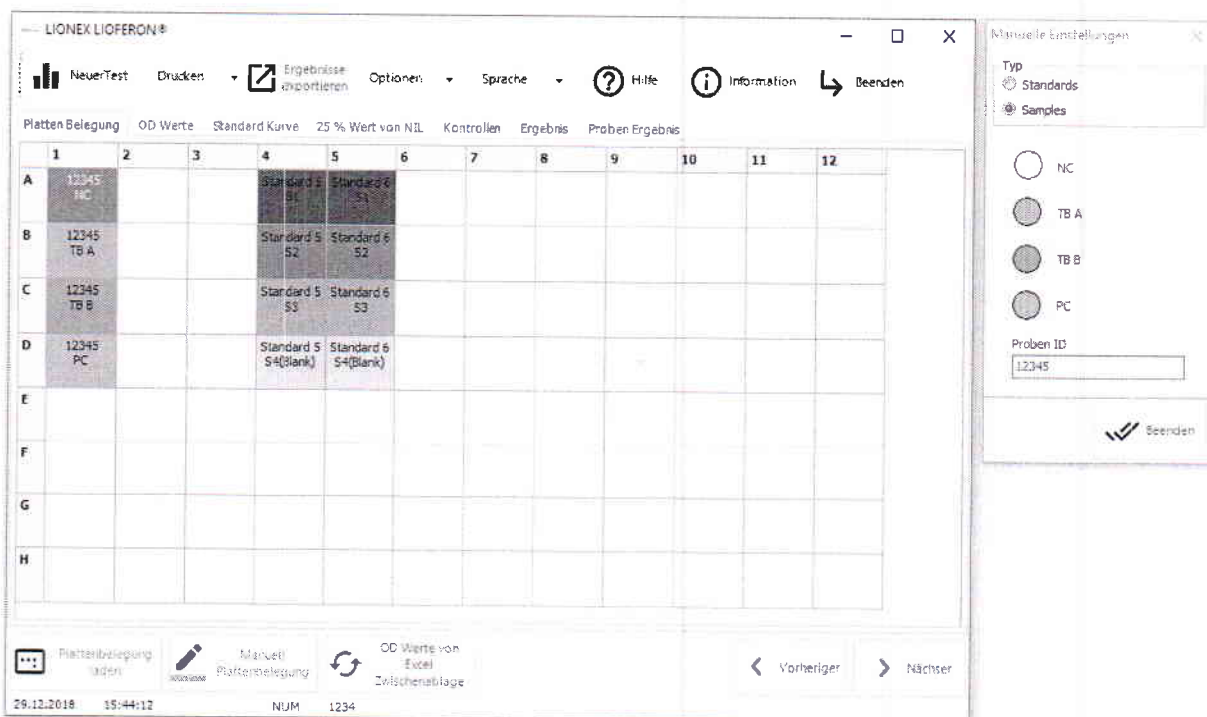
3.5.1. Define Standards

Select it in the disk usage to position the standards standards of manual settings and click.



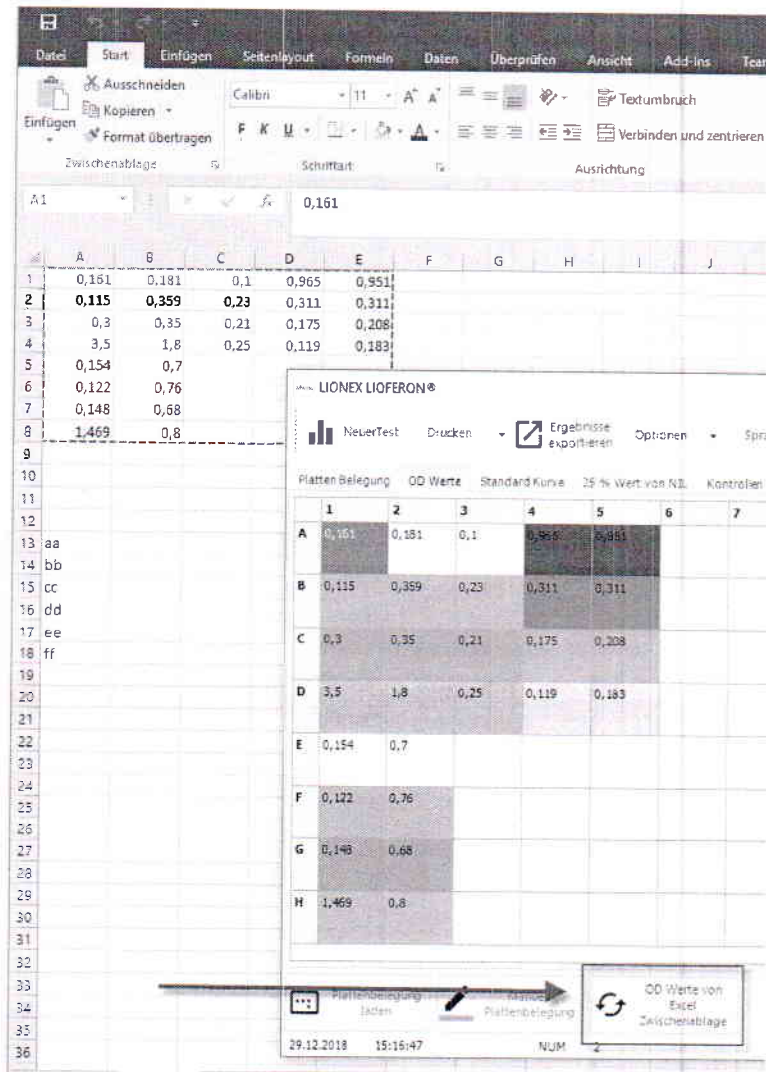
3.5.2. Define Samples

Select it in the disk usage to position the specimen samples in the manual settings and click. You can enter the sample ID directly in the menu. If you enter no sample ID this is assigned automatically.



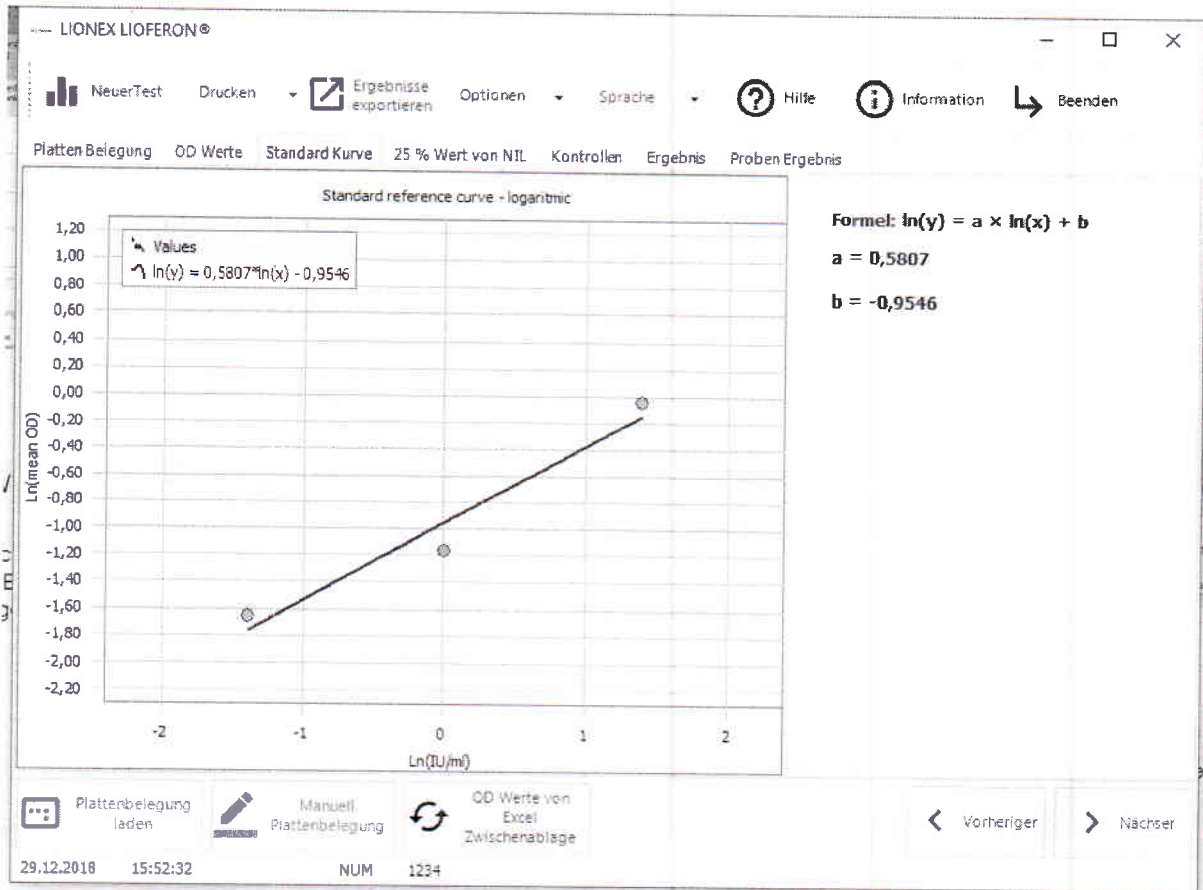
3.6. OD Values from Excel

OD values can be imported directly from an Excel sheet. Select the range in Excel to do this, which contains the OD values and copy the data to the Clipboard. In the LIOFeron program, press OD values from Excel Clipboard.



3.7. Results

The analysis of the data is done automatically. The computed curve is shown in the window of standard curve.



Next to proceed to the 25% value.

LIONEX LIOFERON®

NeuerTest Drucken Ergebnisse exportieren Optionen Sprache Hilfe Information Beenden

Plattenbelegung OD Werte Standard Kurve 25 % Wert von NIL Kontrollen Ergebnis Proben Ergebnis

	1	2	3	4	5	6	7	8	9	10	11	12
A	0,056	0,068	0,025									
B	0,031	0,222	0,103									
C	0,163	0,212	0,088									
D	11,191	3,560	0,119									
E	0,052	0,700										
F	0,035	0,807										
G	0,048	0,666										
H	2,509	0,881										

Plattenbelegung laden Manuell Plattenbelegung OD Werte von Excel Zwischenablage

29.12.2018 15:54:24 NUM 1234

Vorheriger Nächster

The controls will be followed.

The screenshot shows the LIONEX LIOFERON software interface. At the top, there is a menu bar with options: NeuerTest, Drucken, Ergebnisse exportieren, Optionen, Sprache, Hilfe, Information, and Beenden. Below the menu bar, there are tabs for Plattenbelegung, OD Werte, Standard Kurve, 25 % Wert von NIL, Kontrollen, Ergebnis, and Proben Ergebnis. The main area is a grid with 12 columns (1-12) and 8 rows (A-H). The grid contains the following labels: Row A: 1: ok, 2: ok, 3: ok, 4: ok; Row D: 1: ok, 2: ok, 3: test ok, 4: test ok; Row E: 1: ok, 2: ok; Row H: 1: ok, 2: ok. At the bottom, there are buttons for Plattenbelegung laden, Manuell Plattenbelegung, and OD Werte von Excel Zwischenablage. The status bar shows the date 29.12.2018, time 15:55:10, and NUM 1234.

Next, the results follow.

The screenshot shows the LIONEX LIOFERON software interface with the results displayed. The menu bar and tabs are the same as in the previous screenshot. The main area is a grid with 12 columns (1-12) and 8 rows (A-H). The grid contains the following labels: Row A: 1: Positive, 2: Positive, 3: Indeterminate; Row B: 1: Positive, 2: Positive, 3: Indeterminate; Row C: 1: Positive, 2: Positive, 3: Indeterminate; Row D: 1: Positive, 2: Positive, 3: Indeterminate; Row E: 1: Negative, 2: Negative; Row F: 1: Negative, 2: Negative; Row G: 1: Negative, 2: Negative; Row H: 1: Negative, 2: Negative. At the bottom, there are buttons for Plattenbelegung laden, Manuell Plattenbelegung, and OD Werte von Excel Zwischenablage. The status bar shows the date 29.12.2018, time 15:55:41, and NUM 1234.

The last window displays the results as a table.

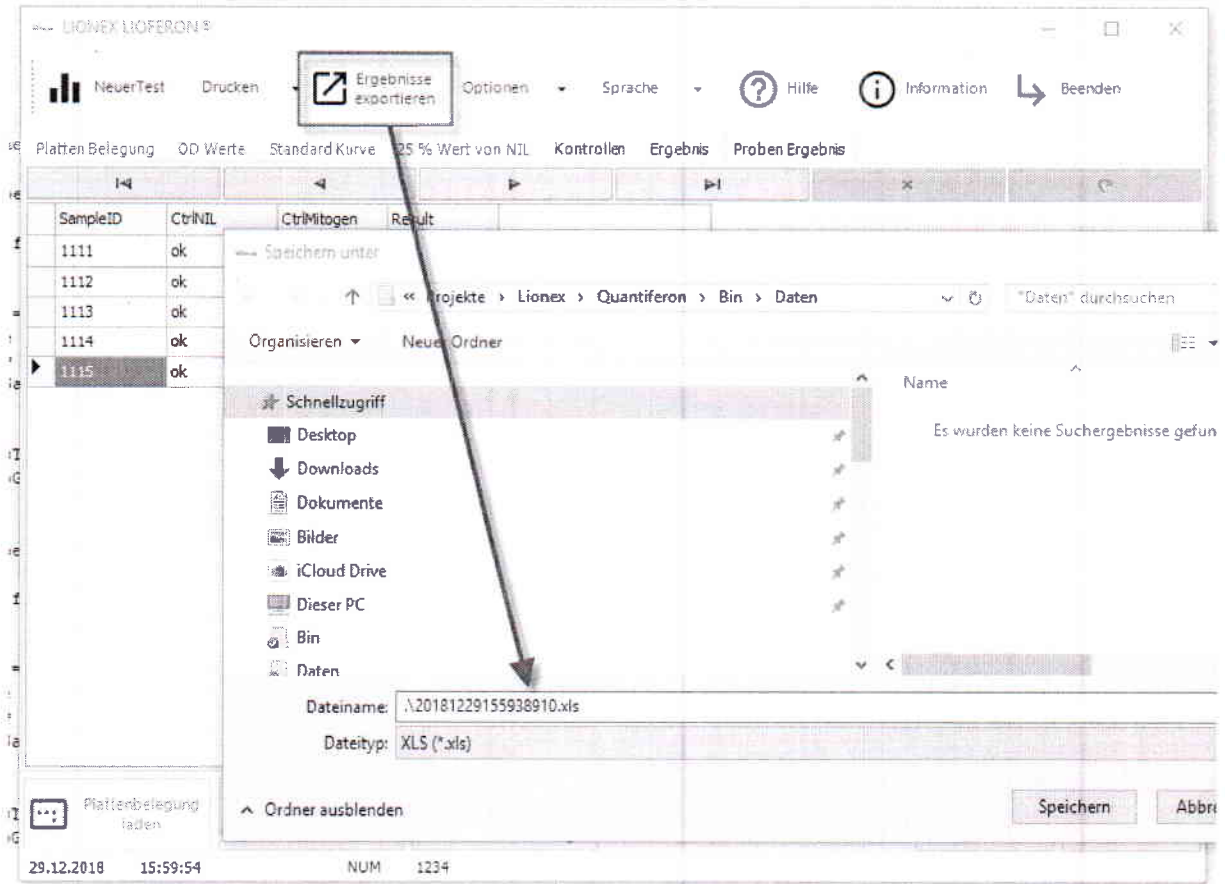
The screenshot shows the LIONEX LIOFERON software interface. The window title is "LIONEX LIOFERON®". The menu bar includes "NeuerTest", "Drucken", "Ergebnisse exportieren", "Optionen", "Sprache", "Hilfe", "Information", and "Beenden". The main menu includes "Platten Belegung", "OD Werte", "Standard Kurve", "25 % Wert von NIL", "Kontrollen", "Ergebnis", and "Proben Ergebnis". The main area displays a table with the following data:

SampleID	CtrlNIL	CtrlMitogen	Result
1111	ok	ok	Positive
1112	ok	ok	Negative
1113	ok	ok	Positive
1114	ok	ok	Negative
1115	ok	not ok	Indeterminate

The bottom status bar shows the date and time "29.12.2016 15:56:53", the number "NUM 1234", and navigation buttons "Vorheriger" and "Nächster".

3.8. Export

The results can be exported using the export function in Excel.



3.9. Print


On the print menu, you can create an expression previously defined with the report designer.

Preview Close

100% of 1

LIOferon Result Report

29.12.2018 15:57:33



SampleID	Content	OD	Value	Control	Result
1111	NC	0,161	0,056	ok	Positive
	TB A	0,115	0,031		Positive
	TB B	0,3	0,163		Positive
	PC	3,5	11,191		Positive
1112	NC	0,154	0,052	ok	Negative
	TB A	0,122	0,035		Negative
	TB B	0,148	0,048		Negative
	PC	1,469	2,509		Negative
1113	NC	0,181	0,068	ok	Positive
	TB A	0,359	0,222		Positive
	TB B	0,35	0,212		Positive
	PC	1,8	3,560		Positive
1114	NC	0,7	0,700	ok	Negative
	TB A	0,76	0,807		Negative
	TB B	0,68	0,666		Negative
	PC	0,8	0,881		Negative
1115	NC	0,1	0,025	ok	Indeterminate
	TB A	0,23	0,103		Indeterminate
	TB B	0,21	0,088		Indeterminate
	PC	0,25	0,119		not ok
S1	S1	0,965	0,000		
	S2	0,311	0,000		
	S3	0,175	0,000		
	S4(Blank)	0,119	0,000		
S2	S1	0,951	0,000		
	S2	0,311	0,000		
	S3	0,208	0,000		
	S4(Blank)	0,183	0,000		

Page 1 of 1

4. Data Format

Format of the text file to import

Column	Content	Format
1	Plate Position	A1-H12
2	Typ	Smp, Ctrl
3	Sample ID / Standard	Barcode, S1, S2
4 (optional)	OD Wert	0,0..3,0

The 4 corresponding tubes must be always one after the other in the list.

Delimiter: (Semicolon) ;

Example:

A1;Smp;1111;0,161

B1;Smp;1111;0,115

C1;Smp;1111;0,300

D1;Smp;1111;3,500

E1;Smp;1112;0,154

F1;Smp;1112;0,122

G1;Smp;1112;0,148

H1;Smp;1112;1,469

A2;Smp;1113;0,181

B2;Smp;1113;0,359

C2;Smp;1113;0,350

D2;Smp;1113;1,800

E2;Smp;1114;0,700

F2;Smp;1114;0,760

G2;Smp;1114;0,680

H2;Smp;1114;0,800

A3;Smp;1115;0,100

B3;Smp;1115;0,230

C3;Smp;1115;0,210

D3;Smp;1115;0,250

A4;Ctrl;S1;0,965

B4;Ctrl;S1;0,311

C4;Ctrl;S1;0,175

D4;Ctrl;S1;0,119

A5;Ctrl;S2;0,951

B5;Ctrl;S2;0,311

C5;Ctrl;S2;0,208

D5;Ctrl;S2;0,183