Easy user's guide <outline>

1st edition(2008.07.01)

Start computer

- Turn on computer and display power.
- Log in the windows.

User Name:administrator、Password: (nothing)

Turn on sequencer power

- Turn on the power. (The status light changes from yellow to Green)
- Start 3130 Data Collection software on windows desktop.

(Wait until four green squares are displayed.)

Change the tray buffer and tray water

<Refer to the check list>

1x buffer is necessary about 32ml.

1) Press the tray button.
2) The stage moves when the tray button is pressed.
   (Don't open the door until the stage has fully stopped.)
3) open the machine door.Change the chamber buffer , tray buffer , tray water.
4) Close the machine door. (The stage returns by the automatic operation.)

Prepare the samples <Refer to the check list>

- Inject the samples with Hi-Di formamide into the microplate.
- Assemble the microplate as shown in the check list. (plate assembly)
  Place the plate assembly in the sequencer.
- Proceed to plate manager. This links with the plate in the run scheduler.

The making 3130 Plate Manager

1) Click Plate Manager. And click New button.
   NAME : date and your name ex.) 20070701iwasa
   <CAUTION> A special character cannot be used. ex.) /:;*?"<>| []! and [space]
   Application→Sequencing Analysis
   Owner Name→your department
   Operator Name→your name
   Click OK button.
2) Sequencing Analysis Plate Editor is displayed. Input sample name.
   <CAUTION> A special character cannot be used.
3) Input Sample method. And inputs it referring to the following.

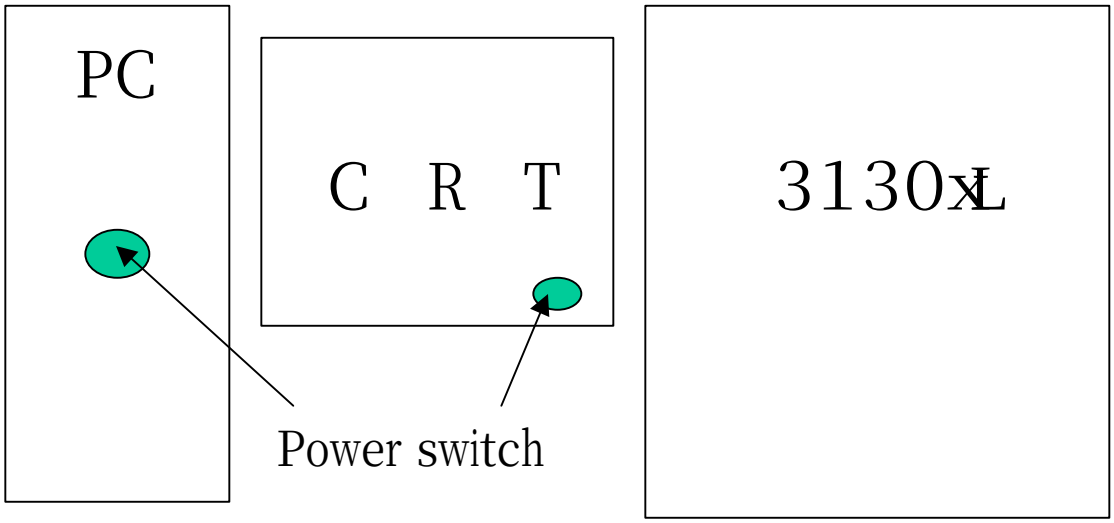
KIT	Results Group	Instrument Protcool1	Analysys Protcool1
Big DyeV1.1	Seq_Results_Group	FastSeq50_POP7_BDv1.1	3130KB_POP7_BDv1.1
Big DyeV3.1	Seq_Results_Group	FastSeq50_POP7_BDv3.1	3130KB_POP7_BDv3.1

4) Confirm sample method and then click OK.
5) Click Run Scheduler. Click Find All button. Click plate name and plate image.
   (The plate name is linked with the plate. Yellow → Green)
6) Click Run View. The position of the sample is confirmed , with the corresponding RUN ID.
   Write the corresponding RUN ID in the check list.

RUN

When you have the problem, the repair charge is demanded. Please treat carefully.

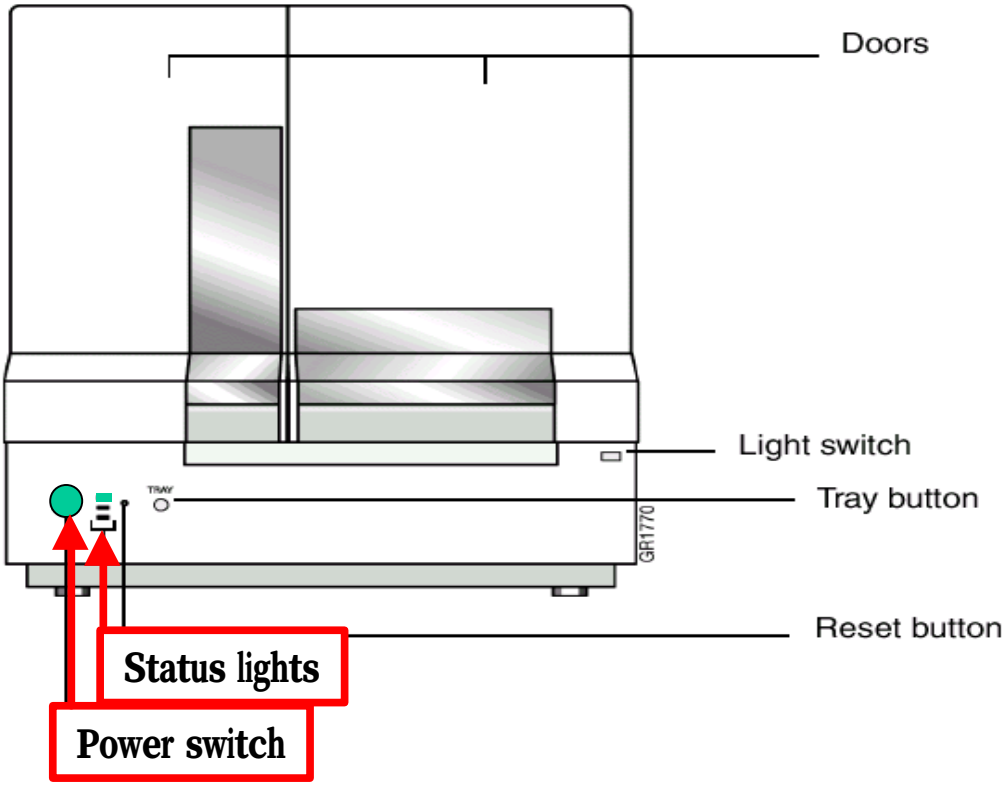
Start computer



1. Turn on PC power.
2. Turn on CRT power.

3. Click [OK] button.

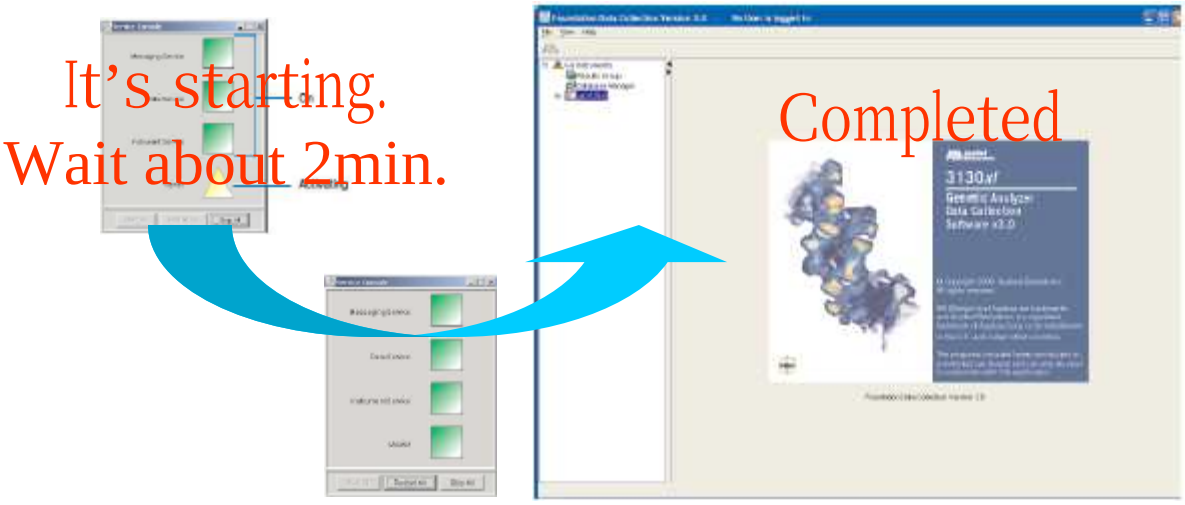
Wait until windows desktop is displayed.

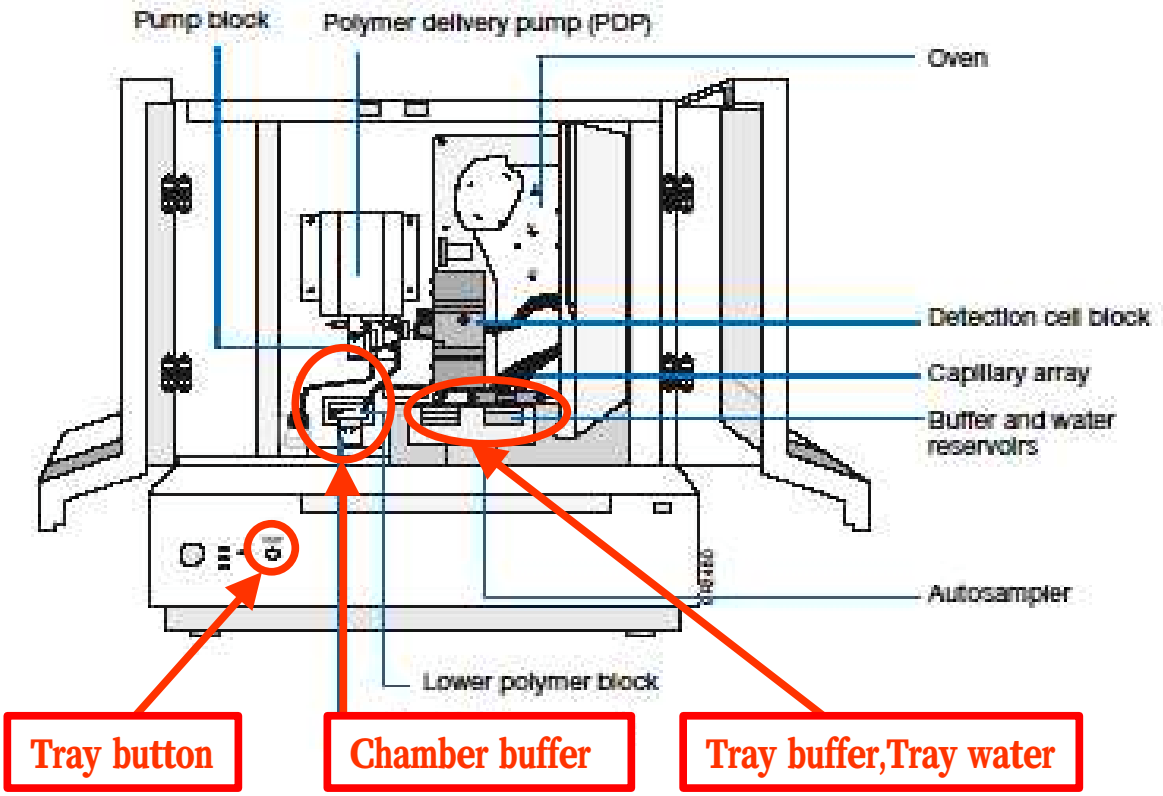


1. Turn on the power of sequencer.
2. Wait until status light changes into green.

It is not possible to use it when changing into red.

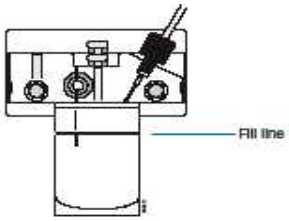
3. Double click [3130 Data Collection] icon on desktop.





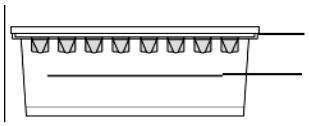
1. Press tray button. The stage moves forward.
2. Open the machine door.
   (Don't open the door until the stage stopping.)
   Change chamber buffer,tray buffer&tray water.

< Check list No.1～6 >



Anode side

16ml (1x buffer)



Tray side

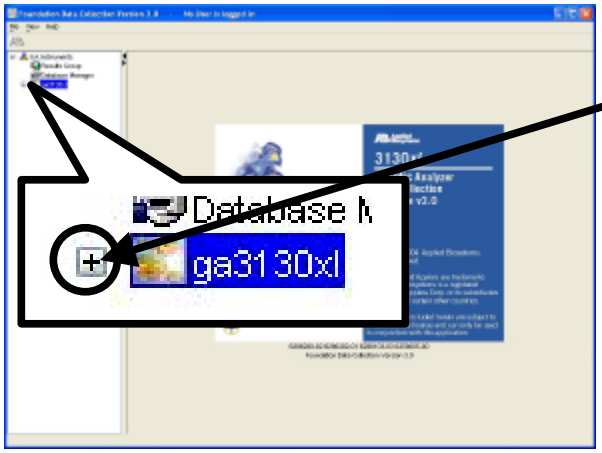
Caution : The septa must not get wet.
The septa must fix firmly.

16ml (ALL)

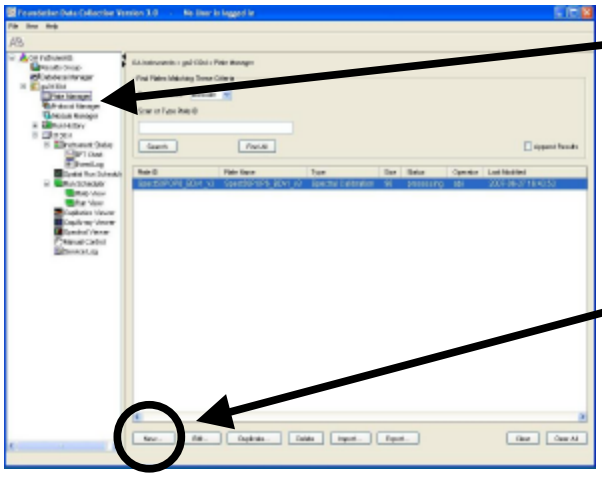
Distilled water	Distilled water
1x buffer	Don't use

FRONT

3. Close the machine door.
   (The stage returns by the automatic operation)

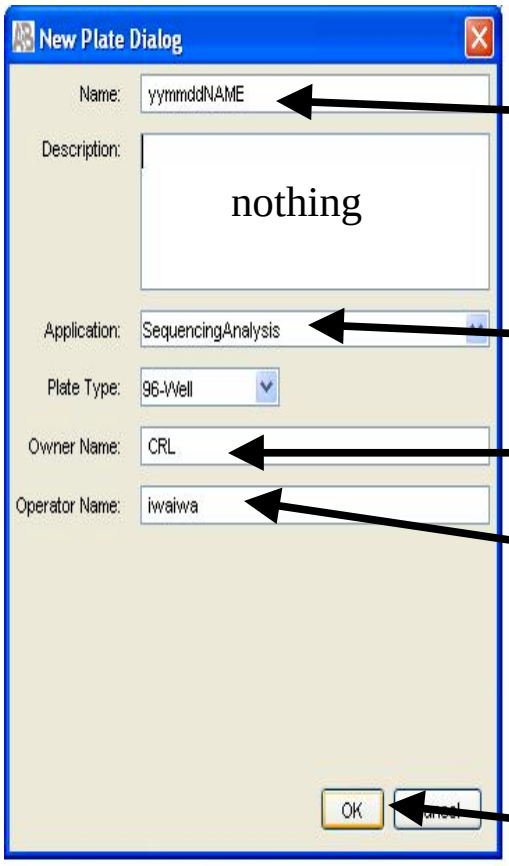


1. Click [+] mark on the side of ga3130xl.



2. Click [Plate Manager].

3. Click [New] button.



4. Input plate dialog.

Date and your name

ex.) 20070701iwasa

<CAUTION> A special character cannot be used.
ex.) /:;*?”<>| []! and [space]

Select [SequencingAnalysis]

Your department

Your name

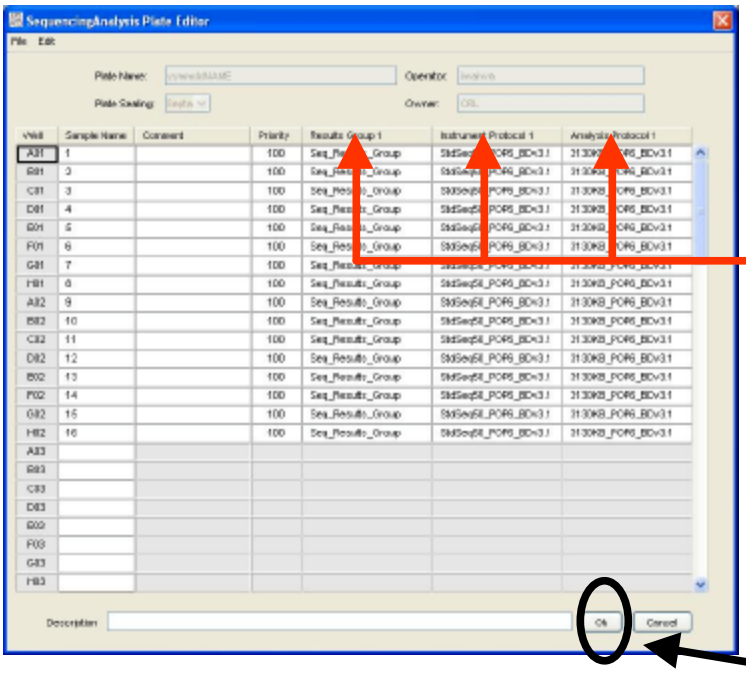
Click [OK] when you input everything.

5. Input sample sheet.

Input sample name and sample information.

<CAUTION> A special character cannot be used for sample name column.
A special character can be used for the comment column.

KIT	Results Group	Instrument Protcool1	Analysys Protcool1
Big DyeV1.1	Seq_Results_Group	FastSeq50_POP7_BDv1.1	3130KB_POP7_BDv1.1
Big DyeV3.1	Seq_Results_Group	FastSeq50_POP7_BDv3.1	3130KB_POP7_BDv3.1



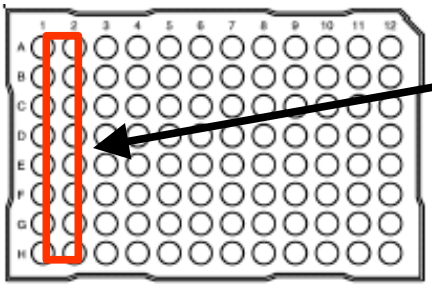
How to copy…

Select the entire row.
Click Edit and select “Fill Down”.
Do the same for the other 2 rows.

Click [OK] when you input everything.

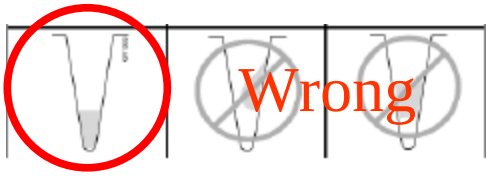
Sample Name
Results Group1
Instrument Protocol 1
Analysis Protocol 1

It is necessary to input these items.



1. 1 set consists of 16 samples.
Use Hi-Di formamide for empty wells.

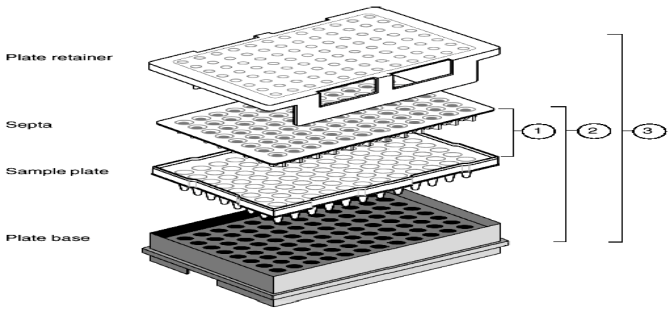
< Check list No.7 >

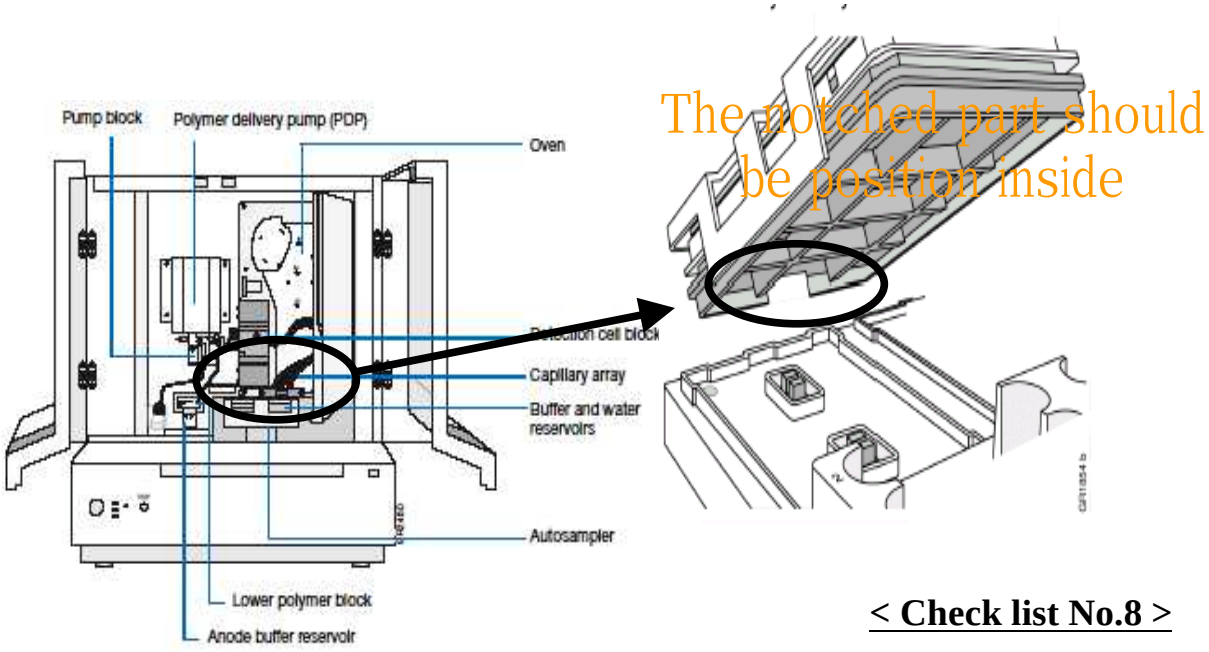


Hi-Di Formamide at 15ul

Inject samples without bubbles.

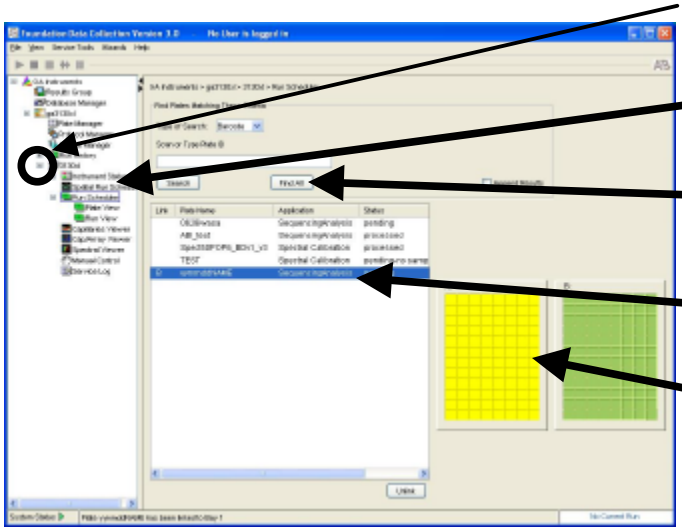
2. Assemble the plate assembly.





< Check list No.8 >

3. Press tray button. Place the plate assembly in the sequencer. Close the machine door.



Click [+] mark on the side of 3130xl.

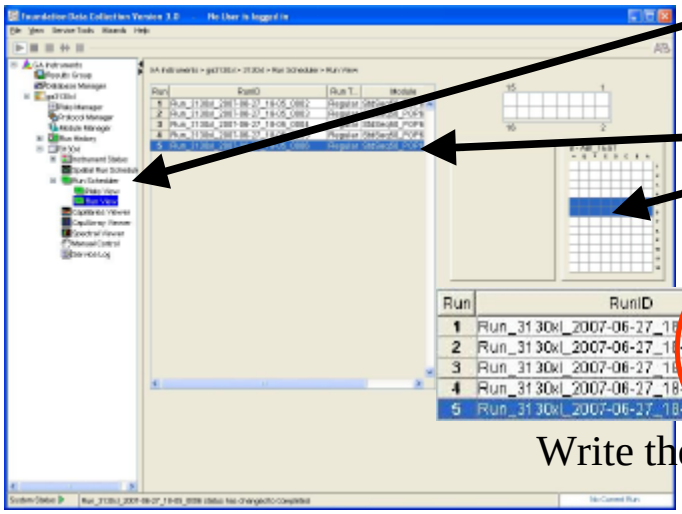
1. Click [Run Scheduler].

1-1. Click [Find All] button.

1-2. Select your plate name.

1-3. Click plate image.

yellow → green



2. Click [Run View].

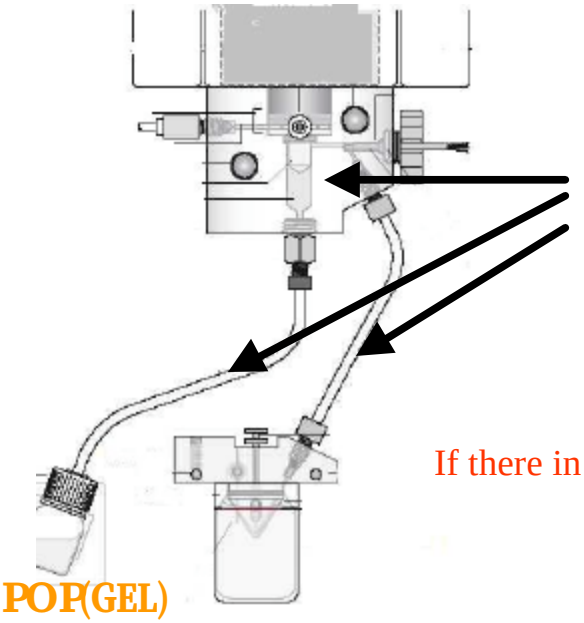
When you click Run ID
The sample position is displayed on the a right graph sheet.
Confirm the sample position.

Run	RunID	Run T...	Modu
1	Run_3130xl_2007-06-27_18-05_0002	Regular	StdSeq50_P
2	Run_3130xl_2007-06-27_18-05_0003	Regular	StdSeq50_P
3	Run_3130xl_2007-06-27_18-05_0004	Regular	StdSeq50_P
4	Run_3130xl_2007-06-27_18-05_0005	Regular	StdSeq50_P
5	Run_3130xl_2007-06-27_18-05_0006	Regular	StdSeq50_P

Write the RUN ID number on the check list.

This is your data folder name.

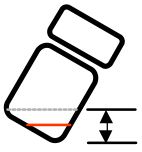
Please pass all items of the check list.



There should not be any bubble within the glass tube.

< Check list No.9 >

If there in bubble or when the POP liquid leave becomes few place inform the staff.



It is warn when decreasing more than half.

RUN

Please write the record note.(check list)

Use date 2008 年 02 月 08 日

Use time 10 時 00 分～ 13 時 00 分

Tel 7472

E-mail crl@md.okayama-u.ac.jp

Department 共同実験室

科研代表者氏名

Name 大腸 菌太郎

Write use date and user name.
E-mail is used to report importantly.

SET サンプル

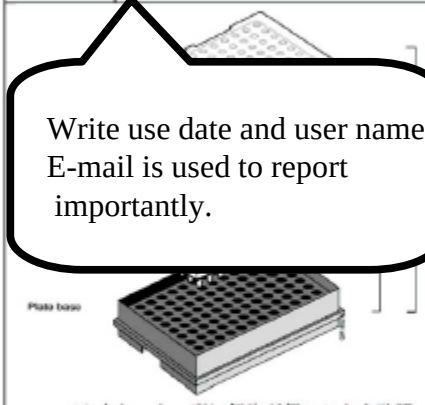
Number of samples 16 本

サンプル set 位置

Times 1

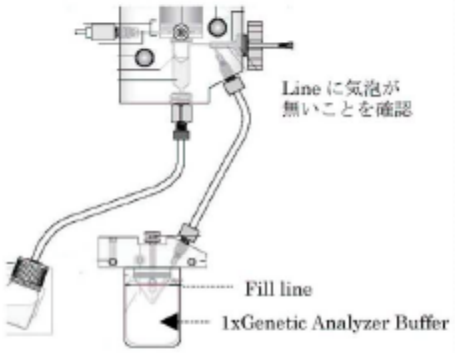
Run ID 0010

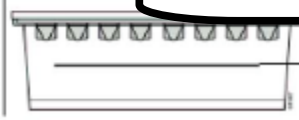
This is your data folder.

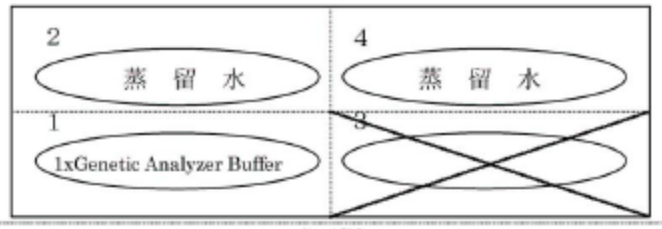


16 本セット、底に気泡が無いことを確認

Draw a line at the place of the sample.







トレイ側

Check item

		備 考	
1. Change chamber buffer	✓	YES	NO
2. Enough volume of chamber buffer	✓		
3. Fixed state of chamber	✓		
4. Change tray buffer,tray water	✓	YES	NO
5. Enough volume of tray buffer,water	✓		
6. Fixed state of buffer(water) tray	✓		
7. 16 samples are couple	✓		
8. Fixed state of sample plate assembly	✓		
9. Bubbles on the line	✓		
* Total check(The mistake is not found in the check on the above-mentioned.)	✓		

Confirm and put a check if everything is OK.

＊＊＊＊＊ミスによる破損は実費負担(10 万円単位)となり

備考

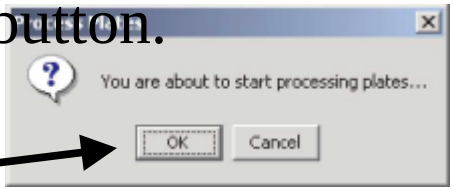
E-mail がない場合、使用者へのお知らせが届きません。

ポリマー残量 m L

E P Current

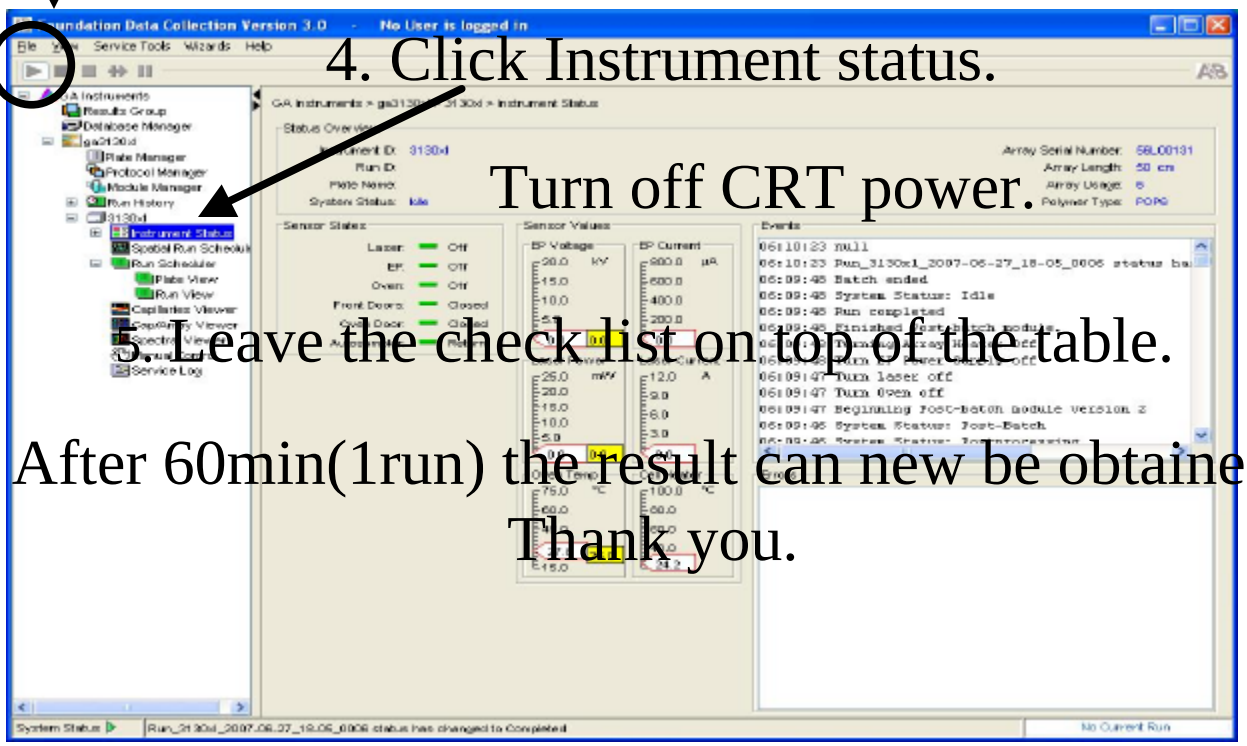
3. Click green triangle button.

[START]



Click [OK]

Sequencer is started.



4. Click Instrument status.

Turn off CRT power.

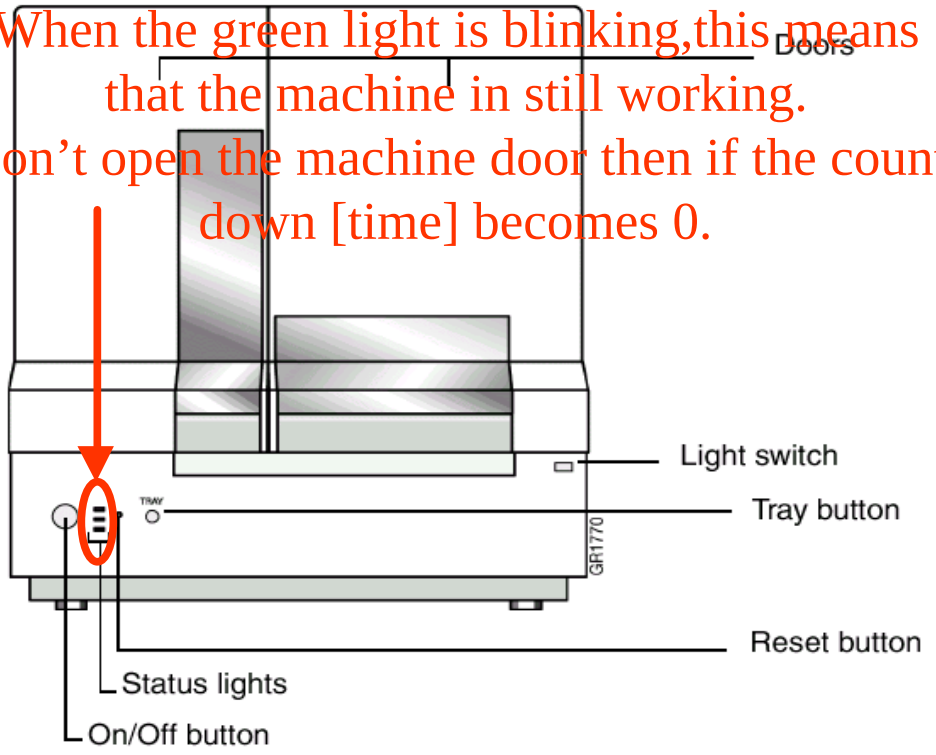
5. Leave the check list on top of the table.

After 60min(1run) the result can new be obtained.

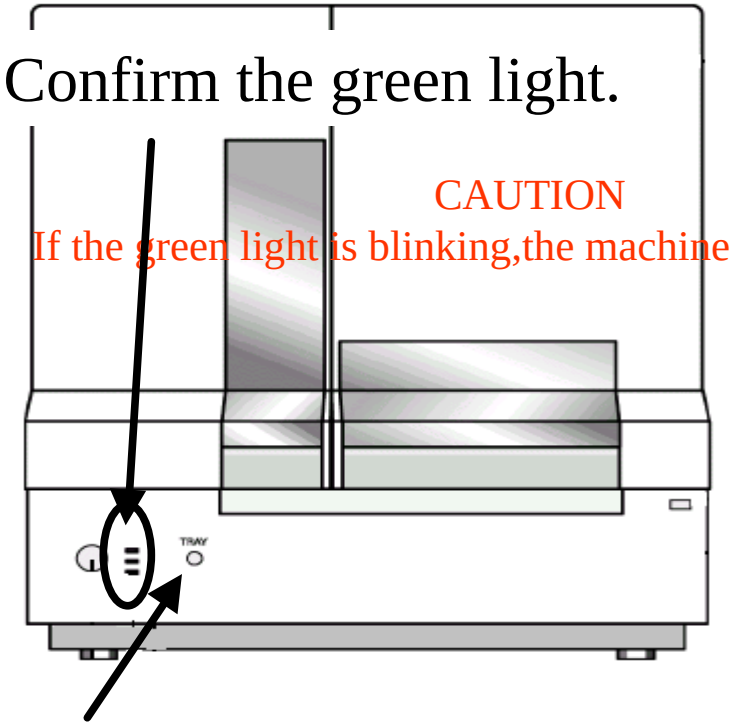
Thank you.

When the green light is blinking,this means that the machine in still working.

Don’t open the machine door then if the count down [time] becomes 0.



After run

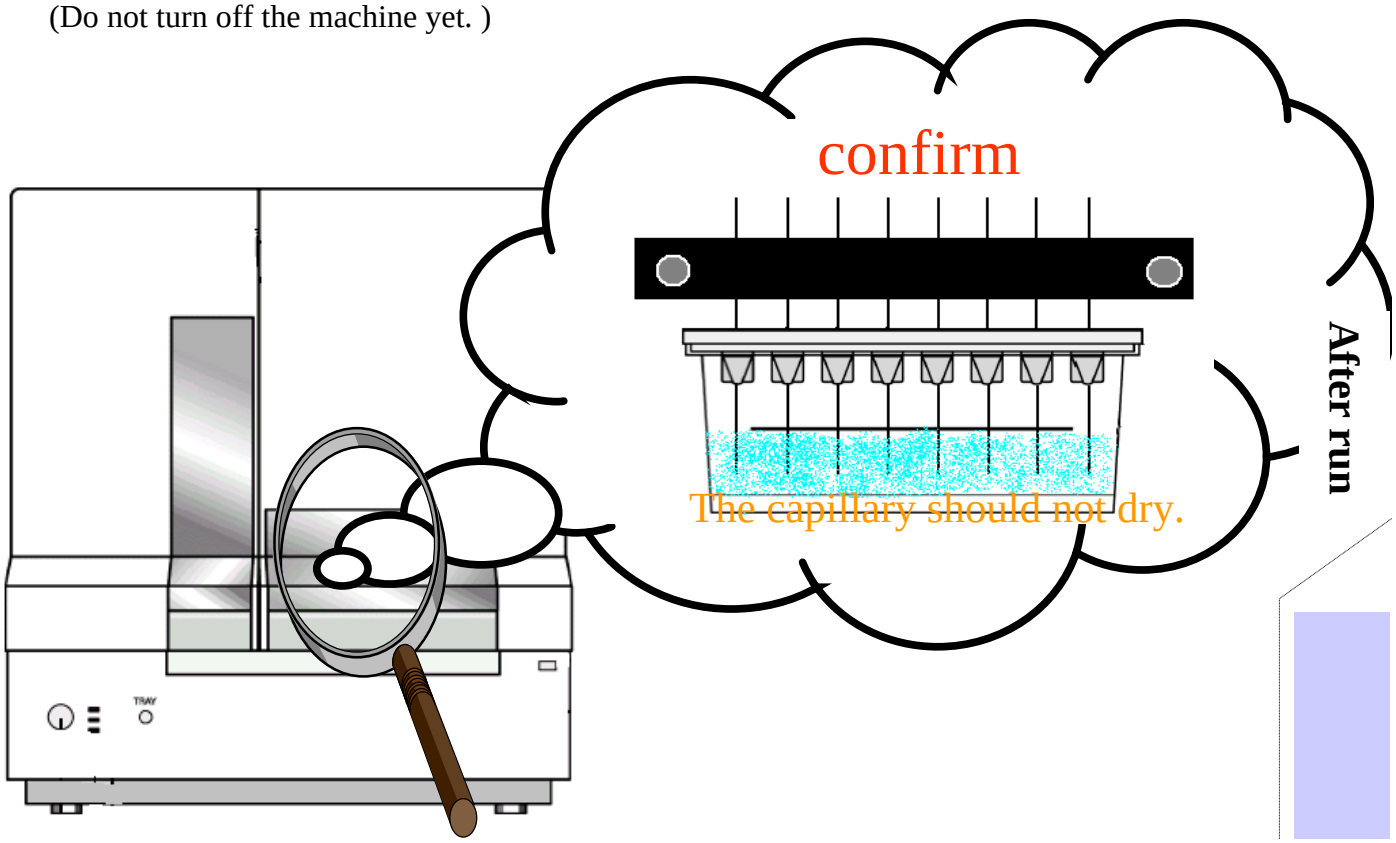


1. Press tray button. （Don’t open the door until the stage has fully stopped.）
2. Open the door and remove the plate assembly.

CAUTION:Do not detach the buffer.

3. Close the door.

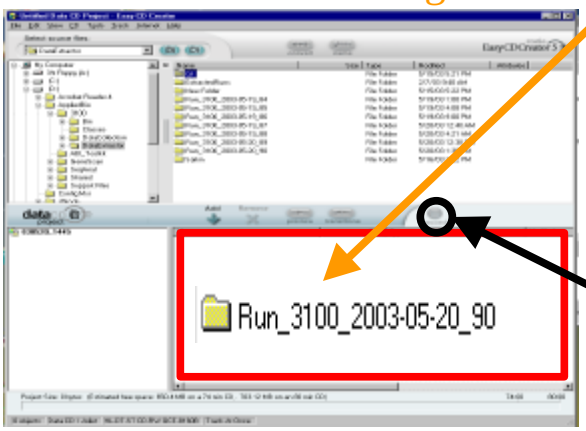
The stage returns by the automatically. Is the capillary soaked to the buffer?
(Do not turn off the machine yet.)



Writing CD-R

1. Insert CD-R and confirm recognition in “my computer”.
2. Double click [Easy CD Creator] icon on desktop.

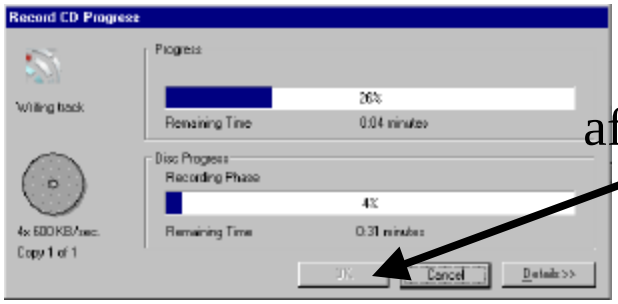
Drag and drop



2. Open the data folder on the desktop.
Select the desired folder and drag into Easy CD creator.

3. Click [Record] button.
(Red circle button)

4. Click [Start Recording] button.



5. Click [OK] button after recording has been completed.

6. Press the [No] button if you display this message.

7. Close the Easy CD Creator window.

Using USB flash memory

<CAUTION>
Please use the USB memory that checks the virus.

1. Please insert it with PC while pressing the shift key.
2. Find the USB in “My computer” and execute the explorer by right-click.

Please contact the staff immediately
when a virus was detected.

Content of report

Department _____

TEL _____

E-mail _____

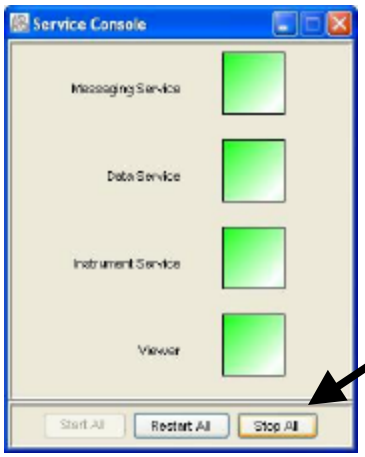
Virus name _____

Date _____

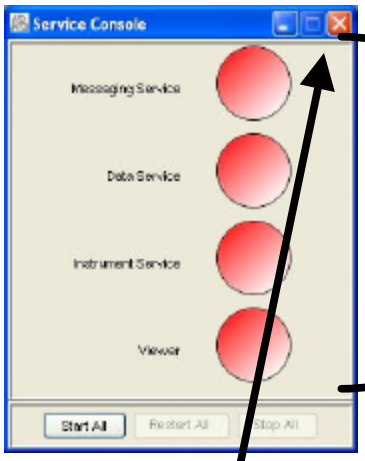
Did you use it with the sequencer? Yes No

When a virus is introduced into the computer, all data is deleted.
After it is infected, copying or transferring of data is prohibited.

Shutdown



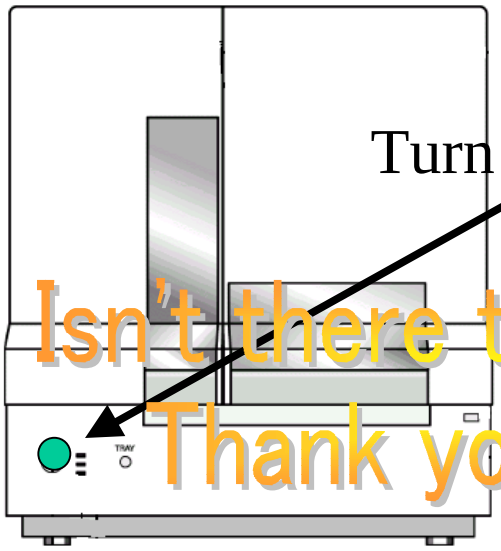
1. Click [Stop All] button.



Wait until four red circles are displayed.

Close the Service console window.

Shutdown WindowsXP.



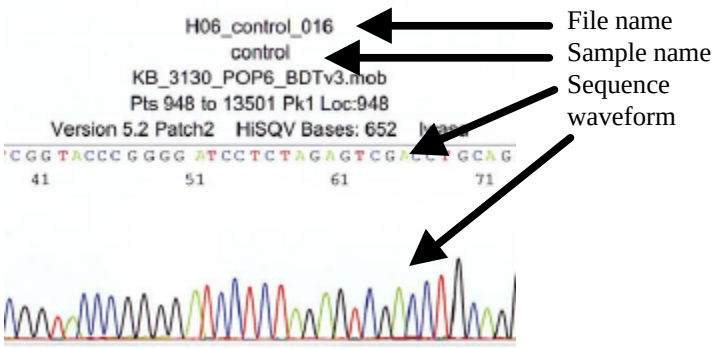
Turn off the sequencer power.

Isn't there thing left behind?

Thank you very much !

About the sequence data

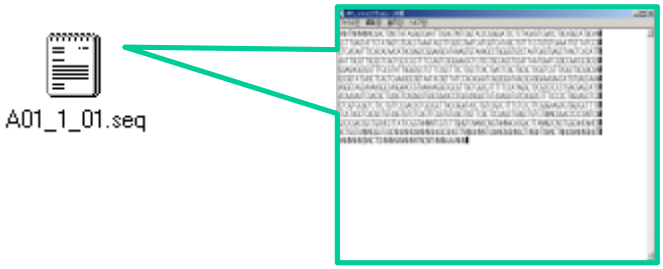
Printout



There is file contents two kinds of data.

< ***.seq > is text data.

(It opens with a window note pad.)

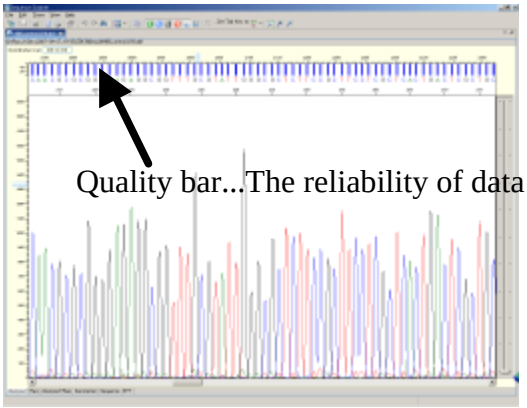


< ***.ab1 > is waveform data.

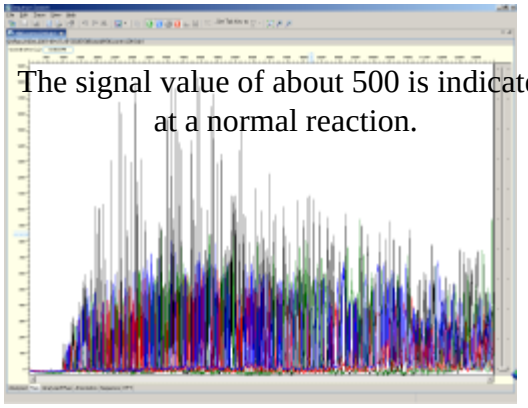
(It opens with a Sequence Scanner)

Sequence Scanner is ABI's freeware.(windows only)

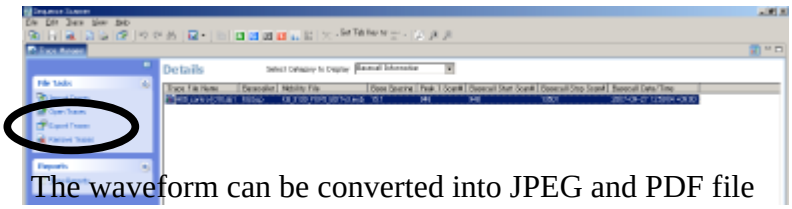
Contents of data



Analyzed…Analyzed data



Raw…Raw data



The waveform can be converted into JPEG and PDF file by using the export function.