

Instruction manual

VWR® FLUOROMETER

Global cat. no: VWRI210-000157



CE

UK
CA

For Research Use Only

Legal address of Manufacturer

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Country of Origin

China

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Warning



Please read this manual carefully and operate the instrument safely according to the guidelines.



The instrument is a normal indoor instrument which conforms to class I of the GB 4793.1 standard.



This instrument is designed for use in a laboratory environment. The device must be operated by skilled laboratory personnel with appropriate training.



To prevent injury or voiding the warranty, the operator should not attempt to repair the instrument without explicit guidance from VWR. If service is required, please contact VWR service.

Safety Information

Avoiding Electrical Shock

Please follow the guidelines below and read this manual in its entirety to ensure safe operation of the unit.



Before powering on, confirm that the voltage used meets the electrical requirements of the instrument as stated on the rating plate. If the electric cord is damaged, replace it with the same type of cord. Hold the socket firmly before pulling the plug from an outlet. Do not pull the electric cord.



The instrument should be installed in an environment of standard room temperature, low dust, low humidity, and away from direct sunlight, electromagnetic interference, and heat sources.



Always power off the instrument when you are finished using it. Unplug the power cord and cover the instrument with a cloth or plastic sheet to prevent excessive dust from entering the housing.



Pull the connector plug from the instrument immediately and contact the VWR in the event of:

- Liquid entering the housing.
- Abnormal operation: such as any abnormal sound or smell.
- The instrument is dropped or there is damage to the housing.
- Any malfunction.

Package Contents

Description	Quantity
VWR Fluorometer	1
Power Supply (5V DC) with plug adapters	1
Operation Manual	1

Unpacking

Carefully remove the instrument and all included accessories from the packaging. It is recommended to keep the packaging for storage, transport, or if the instrument needs to be shipped to a service center for calibration or repair.

Installation

Place the instrument on a level, stable lab bench away from sources of dust, high heat or humidity. The fluorometer is best to be used in an area away from strong light sources and windows, as the reagents used for sample preparation are light sensitive.

Intended use

This instrument is intended to be used for detecting fluorescent samples for the general application of quantification of molecules in a liquid sample.

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

CHAPTER 1 PRODUCT INTRODUCTION

1.1 Description of the Instrument

The VWR Fluorometer is a compact benchtop fluorometer capable of precise quantification of DNA, RNA, Oligos, microRNA, and proteins. Additionally, this instrument allows for kinetic studies: measuring changes in fluorescence over user-defined period of time. The VWR fluorometer performs accurate and precise measurements by fitting unknown sample measurements to a linear fitting curve. Under conditions of low sample concentrations, the reading and concentration values are linear to fluorescence

intensity. Complete kits with fluorescent reagents, buffers and standards for quantifying aforementioned molecules are available from VWR.

1.2 Instrument Specifications

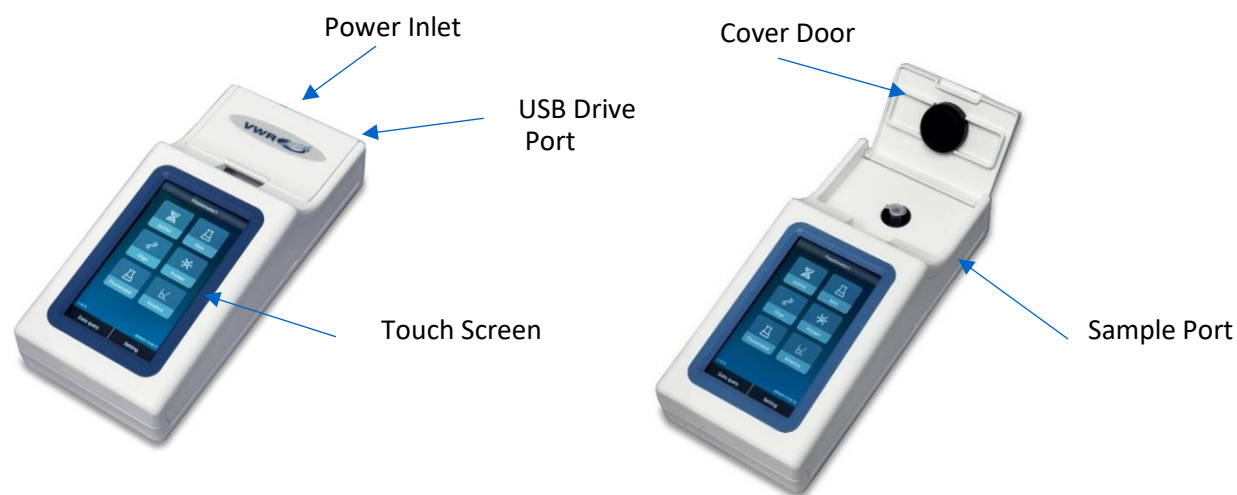
Sample Volume	200 µL
Sample Throughput	1
Compatible Tube	0.5mL Transparent Thin Wall PCR Tube VWR Cat # 210-000166
Test Time	≤5s/sample
Linearity Range	5 orders of magnitude
Light Source	LED
Excitation Wavelength	Blue 460-480nm, Red 630-650nm
Emission Wavelength	Green 500-535nm, Red 670-710nm
Detector	SiPMT
Sensitivity	dsDNA 0.01ng/ul, ssDNA 0.05ng/ul, RNA 0.25ng/ul, microRNA 0.05ng/ul
Calibration	2 points
Operation	5 inch Touch screen
Power	DC5V, 2A, 10W
Working Environment	15-30°C, <75%, Indoor use
Dimension	110*230*45.5mm, 0.5Kg

1.3 Features of the Instrument

- **Rapid Detection:** Accurately detects sample concentration within 5 seconds.
- **Minimal sample volume:** Only 1-20ul of sample is required to obtain reliable results.
- **Intuitive Interface:** The touch screen interface is intuitive and easy to use.
- **High Sensitivity and Accuracy:** The instrument is compatible with quantification kits from VWR and various suppliers, allowing quantification of low concentrations of nucleic acids and proteins.

CHAPTER 2 **PRODUCT OVERVIEW**

2.1 Overview of the Instrument



2.2 Consumables



0.5mL Fluorometer Tube

VWR Part Number	Description
VWRI210-000166	Fluorometer Tubes, 0.5mL Pack of 250

2.3 Available Quantitation Kits

VWR Part Number	Description
VWRI210-000159	VWR dsDNA High Sensitivity Quantification Kit, 100 Assays
VWRI210-000160	VWR 1X dsDNA High Sensitivity Quantification Kit, 100 Assays
VWRI210-000161	VWR dsDNA Broad Range Quantification Kit, 100 Assays
VWRI210-000162	VWR 1X dsDNA Broad Range Quantification Kit, 100 Assays
VWRI210-000163	VWR ssDNA Quantification Kit, 100 Assays
VWRI210-000164	VWR RNA High Sensitivity Quantification Kit, 100 Assays
VWRI210-000165	VWR RNA Broad Range Quantification Kit, 100 Assays

CHAPTER 3 INSTRUMENT INSTALLATION

The instrument can easily be installed by the end-user with basic training. If any problems are encountered during installation, please contact Avantor for help.

3.1 Preparation and Inspection

3.1.1 Unpacking and inspection

Please check the packaging carefully before unpacking. If there is any obvious damage to the packaging, please contact your Avantor representative.

Packing List:

Item	Description	Unit	Quantity
1	Fluorometer	Unit	1
2	Power Supply with Plug Adapters	Piece	1
3	Instruction Manual	Copy	1

3.2 Installation

3.2.1 Environmental Requirements

Parameters	Specifications
Environment	Indoor use only
Operating altitude	Up to 2,000 meters above sea level
Ambient room temperature	15 ~ 30°C
Transport and storage temperature	-20 ~ 60°C
Relative humidity	≤75%

1. The instrument must be installed on a solid and flat table, and the rubber feet of the instrument should be in contact with the table.
2. Do not expose the instrument to direct sunlight.
3. The instrument should be kept away from heat sources and liquids.

CAUTION: Operation of the instrument beyond the environmental conditions described above will not guarantee the reliability of the data. If the temperature and humidity exceed the above ranges, please use indoor air conditioning equipment and avoid direct airflow to the instrument.

3.2.2 Electrical Requirements

Electrical outlet: 100V to 240V AC

Input power voltage: DC 5V, 2A (use the included power supply).

3.2.3 Power on the Instrument

1. Connect the appropriate outlet adapter onto the power supply.
2. Plug the power cord into the USB-C port on the back of the Fluorometer.
3. Plug the power supply into a suitable power outlet.
4. The instrument will automatically power on, perform a self-check, then display the home screen

NOTE :

1. *Only use the provided power supply.*
2. *During use, ensure that the power cable is firmly connected to the instrument*

CHAPTER 4 OPERATING INSTRUCTION

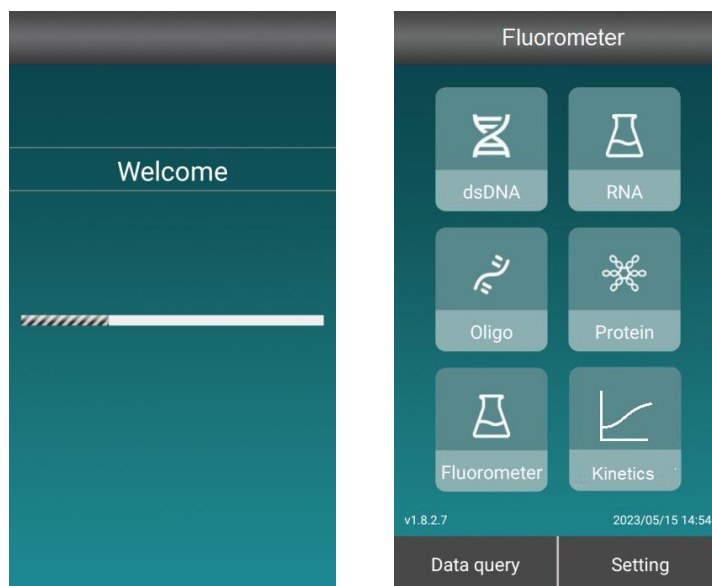
4.1 Startup Screen

When the Fluorometer power cord is connected, the system will be turned on automatically and the instrument will run through a self-test. After the self-test is complete, the screen will display the home page which includes icons for the available applications and as well as **Settings** and **Data query**.

NOTE:

If the instrument is powered off during the self-test process, it will take approximately 5 minutes for the system to restart when power is reconnected, please wait patiently.

Self-test and home page screens:



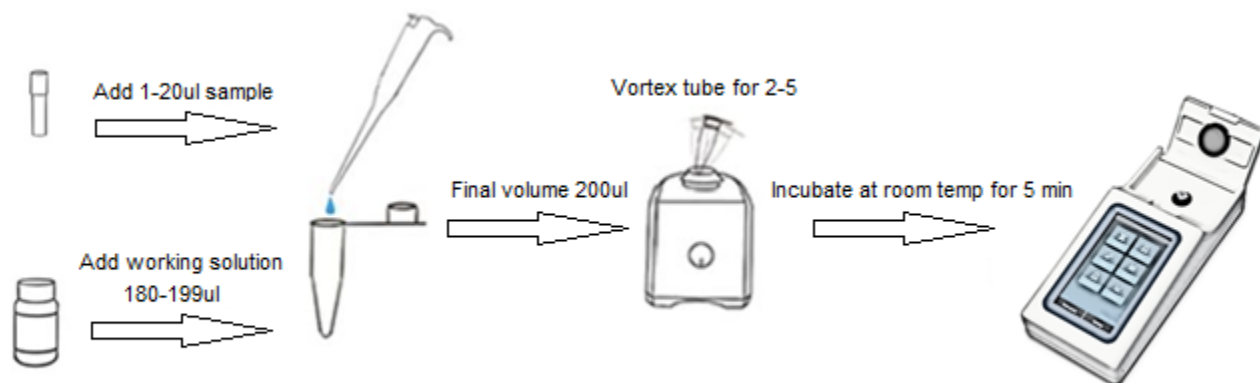
- ◆ Application icons on the home page include assays for: dsDNA, RNA, Oligo, Protein and Fluorometer.
- ◆ Data query: Allows reviewing saved experimental data.
- ◆ Settings: Allows adjusting basic settings on the instrument, such as date/time, device information, software updates, etc.

4.2 Summarized Quantification Protocol

When conducting experiments, please use the consumables recommended in 2.2.

The figure below provides a general outline for fluorescent quantification using the VWR fluorometer.

Please refer to the quantification kit instructions for more details on how to use a particular kit with VWR fluorometers.



1. Add 1-20 μ L of unknown samples to 0.5 mL clear PCR tubes.
2. Add 180-199 μ L working solution to 0.5 mL fluorometer tube to reach a total volume of 200 μ L.

NOTE: The total volume of sample and working solution needs to be 200 μ L.

3. Prepare the standards using the materials included in the quantification kit and according to the kit instructions.
4. Vortex the samples and standards for a few seconds and incubate at room temperature in the dark for 5 minutes.
5. Insert standard 1 into a sample port, close flip cover and select “Read Standard 1”.
6. Insert standard 2 tube into the instrument, close the cover and select “Read Standard 2”.



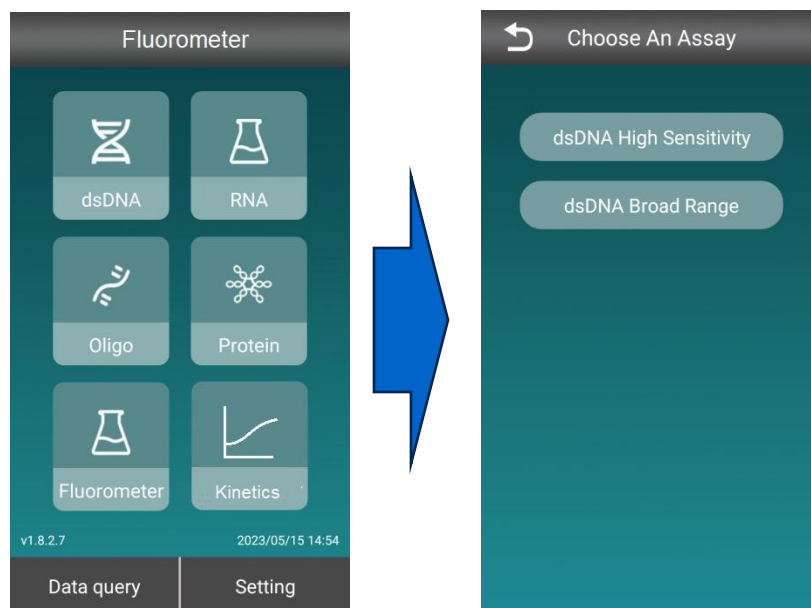
7. For unknown sample tubes, place unknown sample tube into a sample port, select “Read Tube”, input the amount of unknown sample volume used with units of concentration and choose “Start Experiment”.

8. After reading is completed, remove the sample tube, and proceed with the next unknown sample.

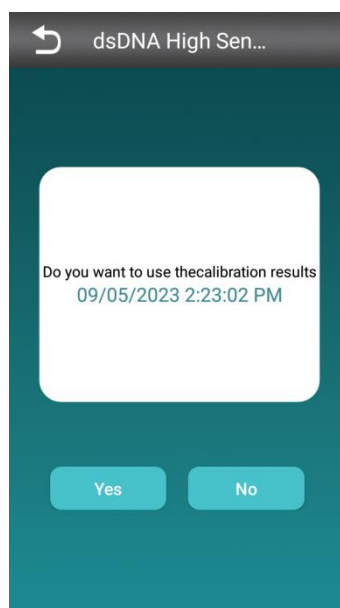
4.3 Detailed Step by Step Quantification Instructions (example dsDNA High Sensitivity):

Review the instructions provided with the Quantification Assay kit being used, as some kits may require a slightly different protocol. The following are details steps for performing a quantification using the dsDNA High Sensitivity kit. It is recommended to have standards and samples prepared and ready to read before proceeding.

Select “**dsDNA**” from the home screen, then chose “**dsDNA High Sensitivity**”

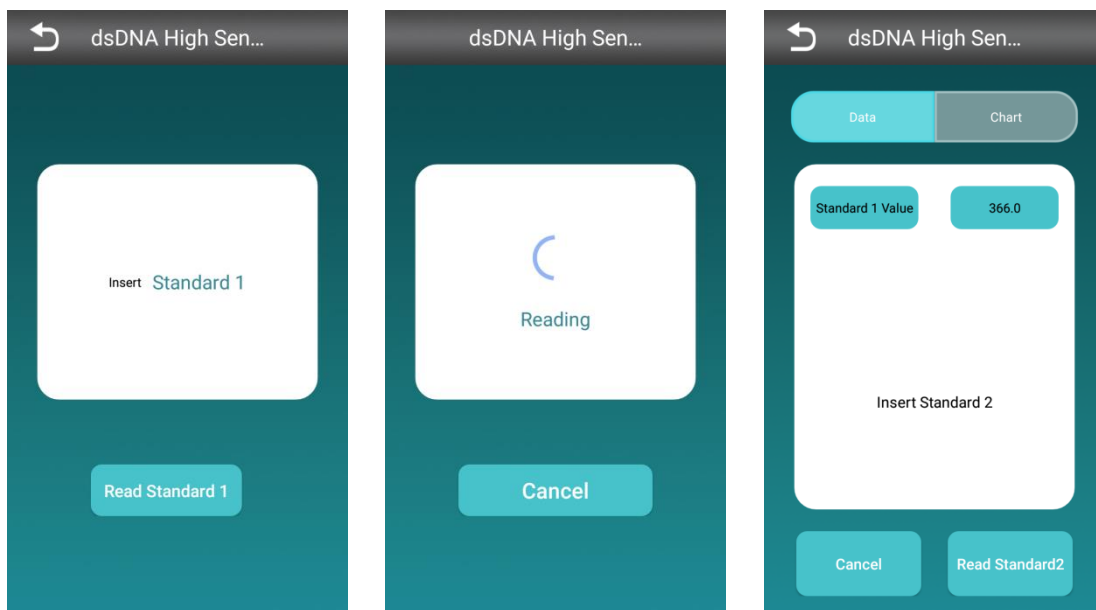


A window will appear asking whether previous calibration results should be used. Note: A new calibration curve should be created when a new batch of working solution is utilized. Click "Yes" to use the previously created calibration curve, and the instrument will go to the sample volume setting page. If you need to re-calibrate, click "No".



If re-calibrating, the screen will provide instructions for inserting the standards to create the curve.

Insert Standard 1, click to "Read Standard 1", then follow the prompts to insert and read Standard 2.



After the calibration, the following screen will show the fluorescence detection results for Standard 1 and Standard 2, you can choose to see the data or the chart (curve). Next, click "Read Tube" to continue the quantification experiment.



Set the sample volume (1-20 μ L) that has been added to the unknown sample tubes with the working solution. There are 2 options for adjusting the setting:

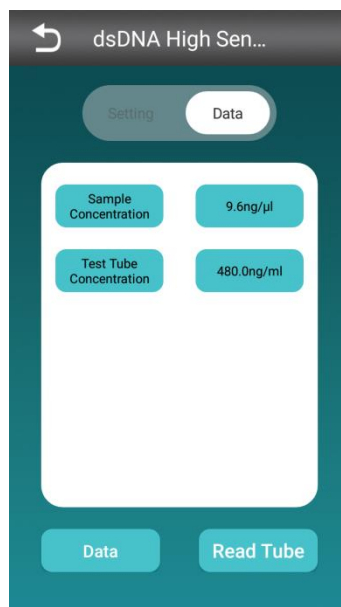
- ◆ Slide the fan-shaped block left or right to set the sample volume ;
- ◆ Click "-" or "+" to decrease or increase sample volume ;

Select the Sample Unit for calculating the concentration of dsDNA.

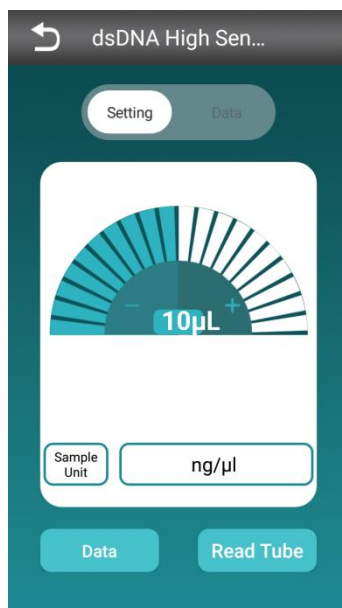
Insert the sample tube. Close the cover of the instrument and click “Start Experiment”.



The detection results will be calculated and displayed :



If you need to reset the sample volume, click "Settings" in the upper left corner to go to the sample volume setting page, as shown in the figure below.

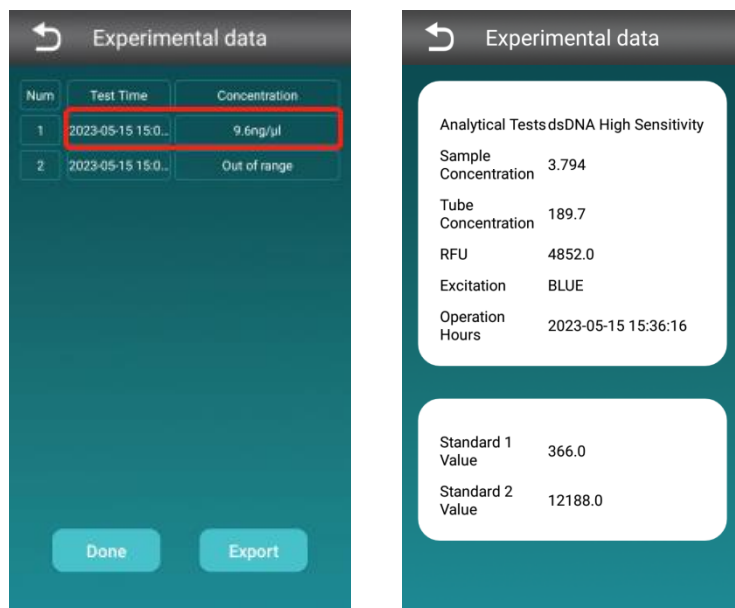


To continue with the next sample, insert a new sample tube, close the cover, and click " Read tube".

Click "Data" in the lower left corner to view the data saved from the current experiment, as shown in the figure below :

Num	Test Time	Concentration
1	2023-05-15 15:0...	9.6ng/µl
2	2023-05-15 15:0...	Out of range

Click on the data to view the detailed results for any specific sample:

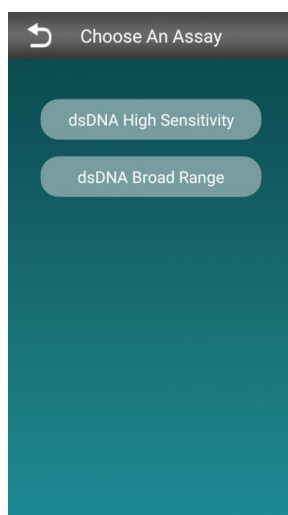


4.4 Available Assays and Detectable Concentration Ranges: dsDNA, ssDNA (Oligo), RNA and Protein assays

◆ dsDNA

This assay is for detection of double-stranded DNA (dsDNA). Click the dsDNA icon on the home page, the select High Sensitivity or Broad Range. The detection range for each dsDNA Assay is shown in the table below:

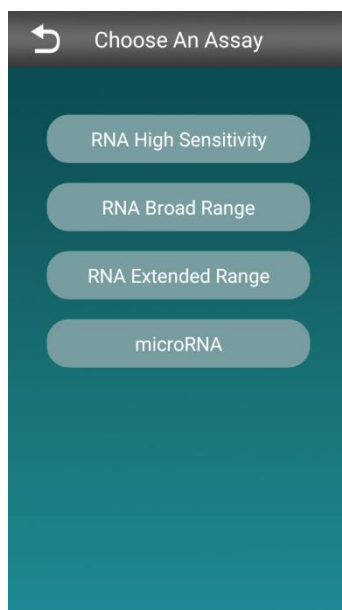
Function	Sample concentration range (ng/μL)	Total Amount (ng)
dsDNA High Sensitivity	0.005-120	0.1-120
dsDNA Broad Range	0.2-2000	4-2000



◆ RNA

This assay is designed for detecting RNA. The detection range for each dsDNA Assay is shown in the table below:

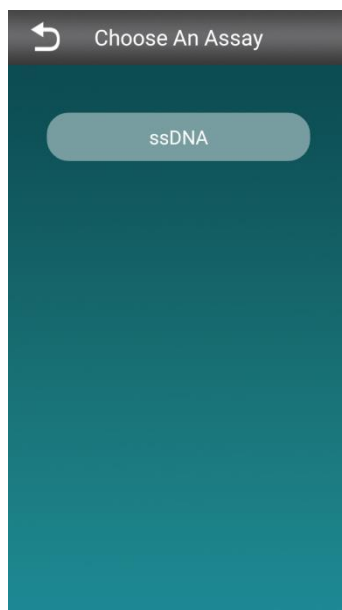
Function	Sample concentration range	Total Amount (ng)
RNA High Sensitivity	250pg/μL and 100ng/μL	5-100
RNA Broad Range	1ng/μL-1μg/μL	20-1000
RNA Extended Range	10ng/μL and 10000ng/μL	200-10000
microRNA	50ng/mL-100μg/mL	1-1000



◆ Oligo

The Oligo Application is optimized to detect single-stranded DNA (ssDNA). The test range is shown in the table below:

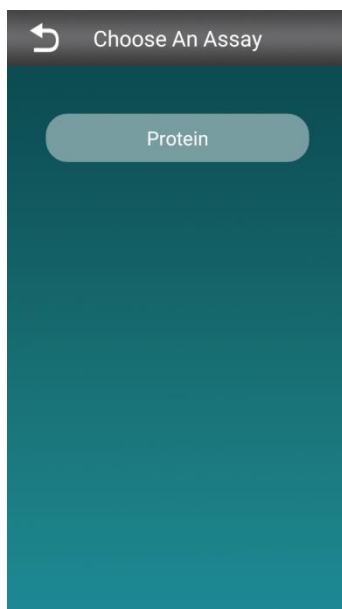
Function	Sample concentration range	Total Amount (ng)
ssDNA	0.05-200 ng/ul	1-200 ng



◆ Protein

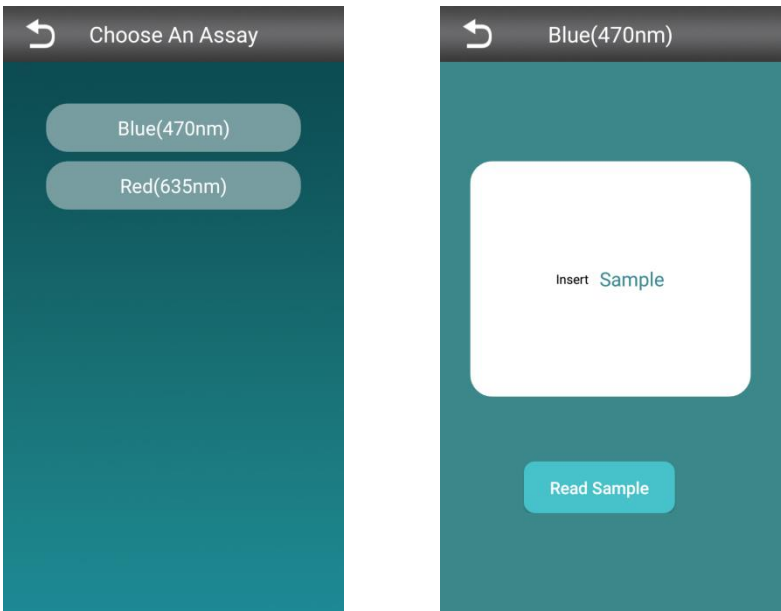
The Protein Application can be used for Broad Range detection assays. The test range is shown in the table below:

Function	Sample concentration range	Total Amount (ng)
Protein BR Assay Kit	12.5 ug/mL-5 mg/ml	0.25-5 ng

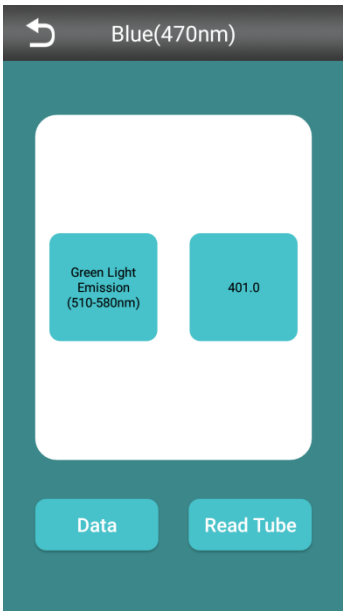


4.5 Fluorometer

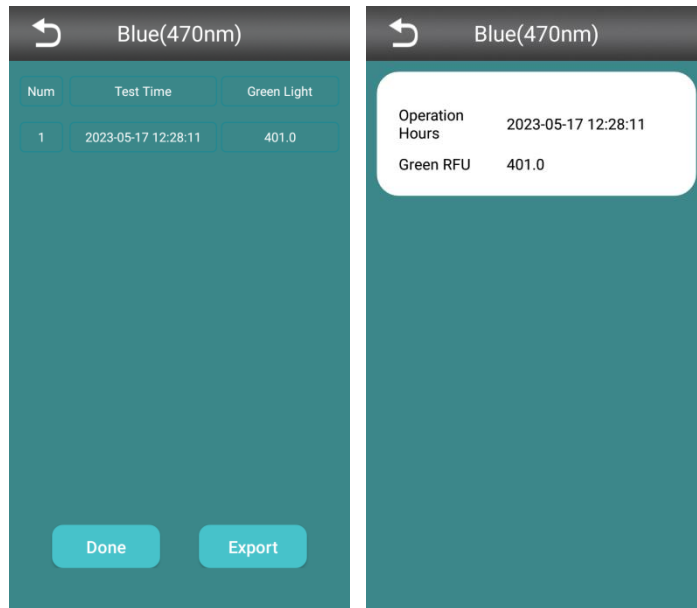
After clicking Fluorometer on the homepage, a page is displayed to select the desired excitation wavelength, then prompts are provided to insert the sample and click “Read Sample” to detect the fluorescence level.



The experimental results are shown per the figure below :



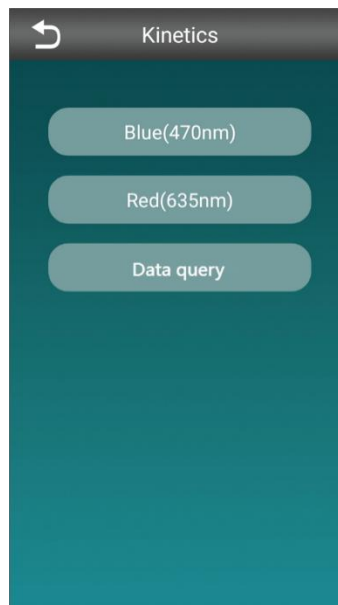
Click "Data" to view the saved data, as shown in the figure below:



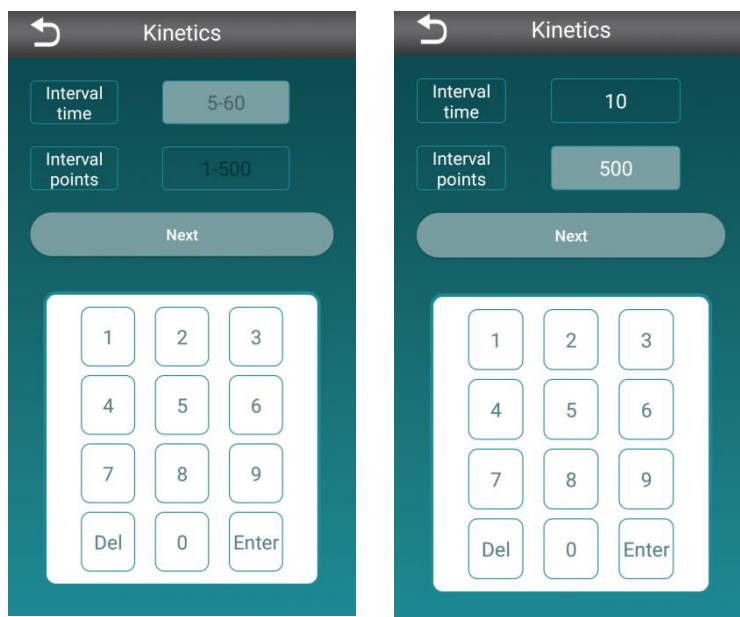
To continue with additional readings, replace the sample tube, close the cover, and click "Read Tube".

4.6 Kinetics

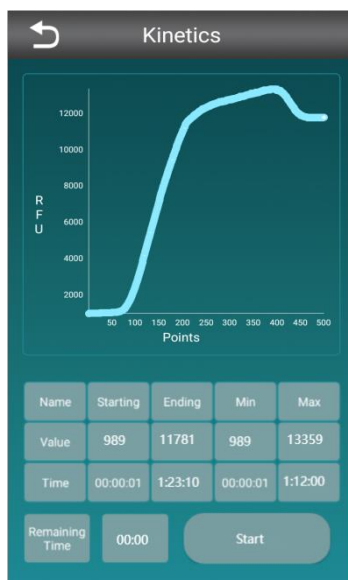
The Kinetics assay is used to observe the change in fluorescence detection over time, and the fluorometer allows selecting the number of readings (interval points) and the time interval between readings (interval time). After selecting "Kinetics" on the homepage, the user can select the excitation wavelength for the assay: Blue (470nm) or Red (635nm).



After selecting the wavelength, the interval time and interval points can be set:

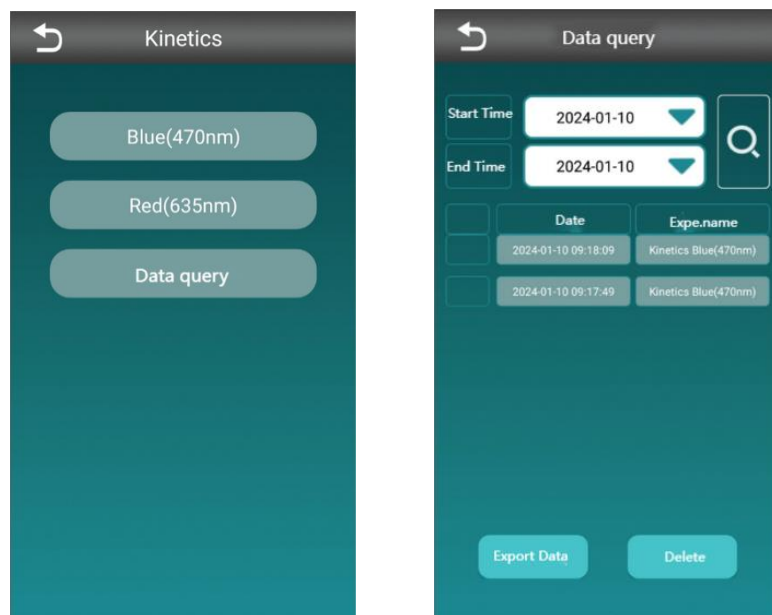


To run a kinetic assay, click 'Next' and the detection page is shown with live data as it is collected. The page displays information such as the fluorescent curve, start/end-point, max/min fluorescence, and the time to reach each fluorescence point. Click 'Stop' to end the experiment.



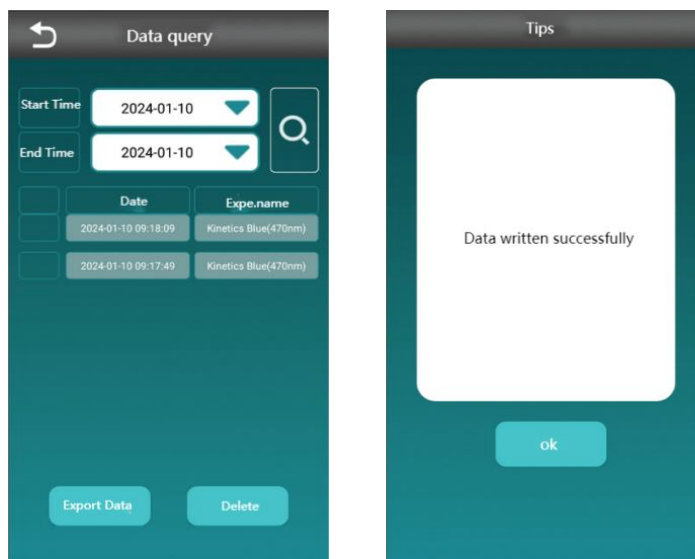
4.6.1 Kinetics-Data query

Note: Data retrieval for Kinetics assays is different than data retrieval for other types of assays. On the main “Kinetics” page, click on the “Data query”, and the Data query page will open:



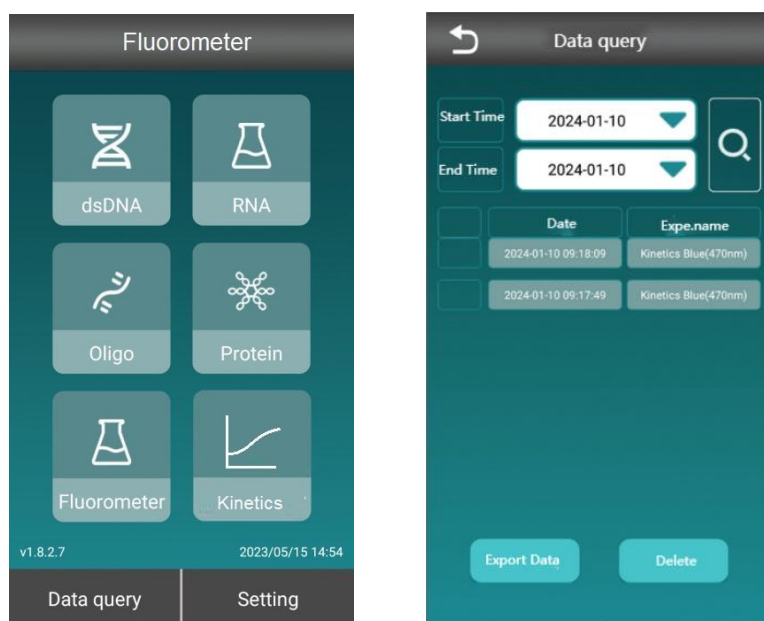
Assay data can be searched by entering a start and end date. Click on the respective date and experiment name from the list to view the data.

Select experiments you want to export or delete by pressing on the left square, and a check mark will appear. Insert a USB flash drive and click "Export Data," as shown in the following page.



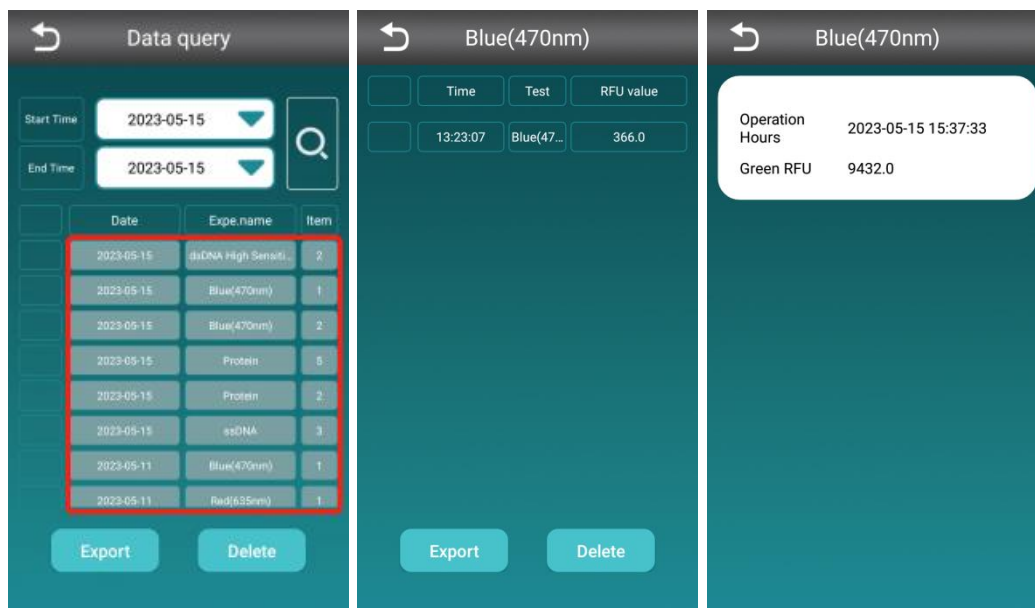
4.7 Data query

Click "Data query" on the home page to access the main “Data query” page:

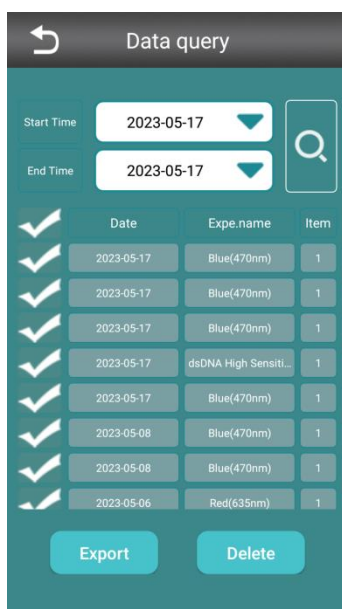


Relevant experimental data can be queried according to date (select the start date and end date).

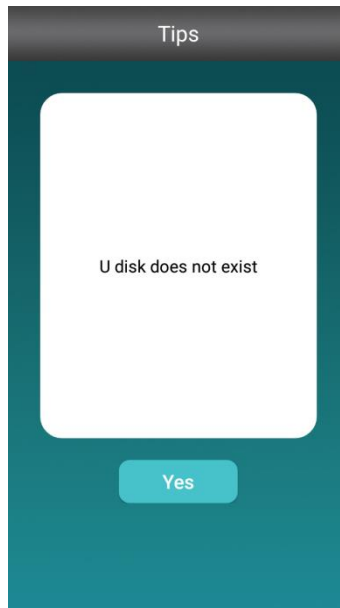
Click anywhere in the box below to view the assay data of any listed experiment.



To select any data to export to a USB or to delete the data, click the left box to create a check mark. Click “Export” or “Delete”. For exporting, insert a USB drive.

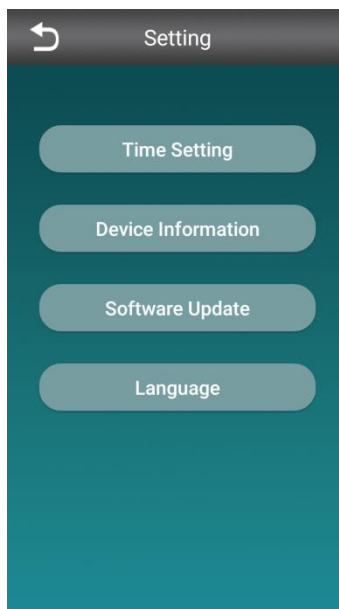


NOTE : To export data, you need to insert a USB Drive. If a drive is not inserted, a prompt will appear that the USB drive is not detected.



4.8 Settings

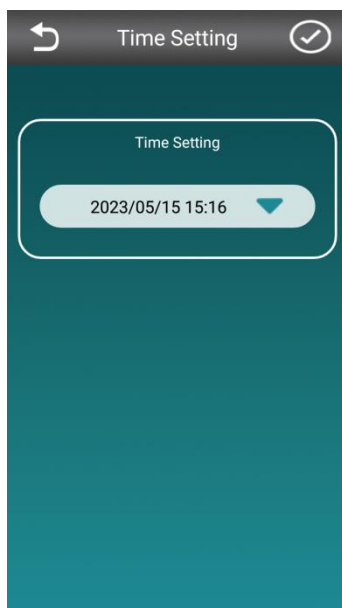
Click "Settings" from the home screen to enter the system setting interface:



4.8.1 Time Setting

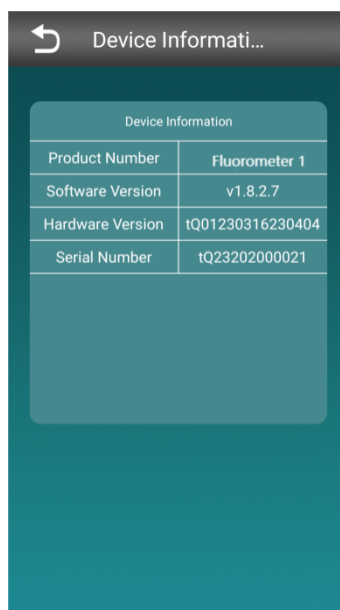
Click "Time Setting" to go to the Time Setting interface. A drop-down menu allows setting the date and time.

Click  to save the changes.



4.8.2 Device Information

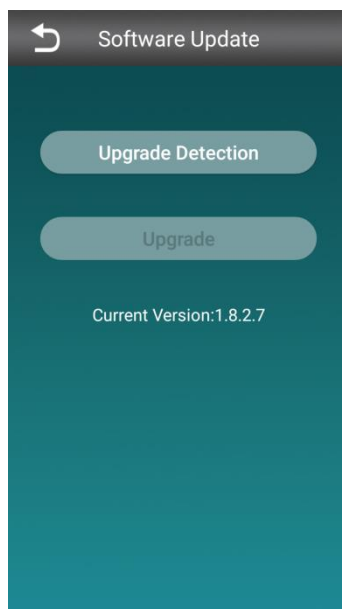
This page allows verification of the product number, current software version, hardware version, and instrument serial number. In the event that service is required, or a software update is available, this Device Information page will be useful.



4.8.3 Software Update

If you want to update the software, you need to insert a USB Drive with the new version of the software into the

instrument. Contact Avantor technical support for information on any software updates available.



CHAPTER 5 MAINTENANCE

5.1 Instrument Maintenance and Cleaning

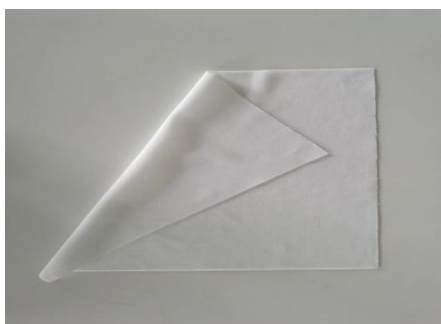
To ensure proper performance of the instrument and reduce cross contamination of samples, it is recommended to clean the instrument weekly.

If contamination occurs due to a spill, wipe all accessible parts (outer housing, sample port, hinged cover, sealing ring, etc.) with a clean rag or cotton swab lightly dampened with 70% ethanol and allow to dry.

Recommended cleaning supplies:



alcohol/water



cleaning cloth



cotton swab

WARNING:

Be careful not to use a very wet cloth and do not allow liquid to enter the sample chamber or enter the housing.

NOTE:

- 1. Do not use solvents or strong detergents to clean the instrument, as this may damage the plastic case of the instrument.*
- 2. Before cleaning, unplug the instrument from the power source.*
- 3. Do not spill any liquids onto or into the instrument.*
- 4. Do not connect the instrument to a power source until it has dried completely.*

CHAPTER 6 TROUBLESHOOTING

Review the information in the table below to troubleshoot operating problems.

	Problem	Possible causes	Processing method
1	No Power (no display)	Power cord connection is loose	Plug in the power cord again, make sure it fits tightly
		The wiring port is damaged	Contact Avantor Support
2	Display appears lighter or darker	Instrument is too hot or cold	Adjust the room temperature, and continue to use it after the instrument returns to normal temperature
		Using the Instrument in Unsuitable Lighting	Dim the overhead lights, do not use in a bright light environment
3	Incomplete display or wrong display on the display	Display window is dirty	Clean the display window
		Display window is scratched or dented	Contact Avantor Support
		Display or instrument damage or error	Contact Avantor Support
4	No response to keyboard presses	Damaged or faulty keyboard or instrument	Contact Avantor Support

CHAPTER 7 TECHNICAL SERVICE AND WARRANTY

Resources

Visit the VWR website at www.vwr.com for:

- Complete technical service contact information
- Access to the VWR Online Catalogue, and information about accessories and related products
- Additional product information and special offers

Contact us: For information or technical assistance contact your local VWR representative or visit. www.vwr.com.

Warranty

VWR warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

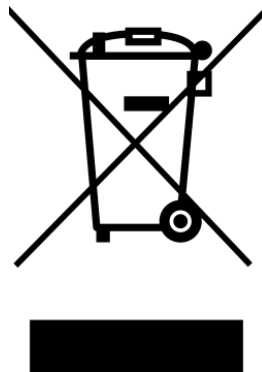
Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

CHAPTER 8 COMPLIANCE

Compliance with local laws and regulations

The customer is responsible for applying for and obtaining the necessary regulatory approvals or other authorizations necessary to run or use the Product in its local environment. VWR will not be held liable for any related omission or for not obtaining the required approval or authorization, unless any refusal is due to a defect of the product.

Equipment disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.

Instead, it's your responsibility to correctly dispose of your equipment at lifecycle -end by handling it over to an authorized facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment.

By doing so, you will help to conserve natural and environmental resources, and you will ensure that your equipment is recycled in a manner that protects human health.

Our local offices in Europe, AMEA and North America

Austria

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Email: info.at@vwr.com

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