

5 Commonwealth Ave Woburn, MA 01801 Phone 781-665-1400 Toll Free 1-800-517-8431

User Manual

V1.0



IsoPure 96 Nucleic Acid Purification System





Thank you for purchasing our IsoPure 96 Nucleic Acid Purification System. This user manual describes the instrument's features, specifications, as well as complete operating instructions, please read carefully before operation. Keep this user manual for later use.

Initial Inspection

Please check the instrument as well as all included accessories when you first open the packaging. If you find anything damaged or missing, please contact Benchmark Scientific or your local distributor immediately.

BENCHMARK SCIENTIFIC

PO Box 709 Edison, NJ 08818 USA Phone: 908-769-5555 Website: www.benchmarkscientific.com / www.accuris-usa.com Email: info@benchmarkscientific.com / info@accuris-usa.com Version No.: 1st, November 2018

Safety Warnings and Guidelines

1. Important information for safe use

Users should have a clear understanding of how to use this instrument before operation, please read this manual carefully prior to operation.



Any improper operation may cause injured or electric shock. Please read the manual carefully and operate safely according to the guidelines.

2. Security

The operation and maintenance and of the instrument should comply with the basic guidelines and warnings below. Incorrect operation or maintenance will have effect on using life, performance, and safety features of the instrument.



The instrument is normal indoor instrument which conforms to class \ensuremath{I} of GB 4793.1 standard.



Please read this manual carefully before operation. The device must be used by experienced personnel with appropriate training.



The operator should not repair the instrument in case any injury or out-of warranty. If service required, please contact Benchmark Scientific / Accuris Instruments or your local distributor for repair.

Before powering on, please make sure the voltage of the power supply is consistent with the required voltage. And make sure the rated load of the power outlet is not less than required by the instrument.



If the power cord is damaged, replace it with the same type and specification power cord. Do not cover anything on the instruments when using. Insert and pull the power line with hand gently and make sure the plug completely insert to the jack.



The temperature of the heating block is high, please do not touch it during the operation in case any injury.

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The instrument should be kept in an area with minimal dust, away from wet areas and direct sunlight. In additional the installation location should have sufficient ventilation, but away from electromagnetic interference and heat sources. The vent on this instrument are designed for ventilation. Do not cover them in case overheat. When many instruments are used at the same time, the distance between each instrument should be more than 100cm.



Power off when not in use. If the instrument will not be used for a long period of time, cover it with a cloth or plastic to protect it from dust.

Disconnect the power cord from the jack at once in the following cases, and contact your local distributor or Benchmark Scientific / Accuris Instruments:

• Liquid enters into the Instrument;



- Instrument was rained or watered.
- Abnormal operation: such as abnormal sound or smell.
- Instrument dropping or outer shell damaged.
- The function has obviously changed.

3. Maintenance

The instrument should be cleaned regularly using a soft cloth damp with small amount of alcohol. If any stain on the surface of the instrument, wipe it with soft cloth damp with cleansing cream.

4. Transportation and storage requirements Ambient temperature: 10 °C ~
35 °C Relative humidity: ≤70% Atmosphere pressure range: 500 ~ 1060hpa Locate it in a well-ventilated room, away from corrosive gas.

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Chapter 1 Introduction

The IsoPure 96 nucleic acid purification instrument is a newly launched automatic extraction and purification system for DNA/RNA, proteins and cells. It can absorb, transfer and release magnetic beads by magnetic rod and magnetic rod sleeve to separate magnetic beads and samples. The operation is automatic, fast and simple. Users can extract 1~24, 1~48 or 1~96 samples simultaneously with special kits. Auto pure series can extract samples of animal/plant tissue, blood and body fluids, etc with different kinds of magnetic bead nucleic acid extraction reagents. It is mainly used for the extraction and purification of nucleic acid from human body samples.

1. Application

This instrument is suitable for the extraction and purification of nucleic acids in animal and plant tissues, blood and body fluids and other samples(mainly used in human body samples).

2. Contraindication No contraindication.

3. Service Life

Service life of the instrument is five years.

For production date, please see the label on back of the instrument.

Chapter 2 Specifications

1. Working Conditions

Environmental Temperature: 10 C~35 C Relative Humidity: ≤70% Input Voltage: AC 100~240V, 50Hz/60Hz

2. Basic Parameters

Model Parameters	IsoPure Mini		lsoPure 96					
Principle	Magnetic Particle Method, Magnet type							
Sample Volume	200µL-10000µL	200μL-10000μL 50μL—1000μL						
Throughput	24		96					
Stability			CV≤5%					
Extraction time	10 ~ 60min/time							
Temperature								
control module	Room temperature to 120 °C for lysis and elution							
Temp. Accuracy	±1°C							
Vibrateand mix	10 different speeds for option							
Operation	7 inch color tou	ch sc	reen, mouse can be connected					
Programs	8 groups of progr	ams o grou	can be preset, and can store 100 ps of programs					
Program								
management	Including creat	te, ed	lit, delete and protocol mode					
Extension								
interface	With L	JSB p	ort and Ethernet port					
Network	Extended Ethe	rnet r	emote control, WiFi function.					
Power Supply	AC100)-240'	V, 50Hz/60Hz, 250VA					

3. Overall Dimensions

Unit: mm





Chapter 3 Basic Operating Instructions

This chapter mainly introduces structures, basic operation keys, displays, as well as preparations before starting up. Please read this chapter carefully before using this instrument.

1. Structures

1.1. Front



Fig 2







4

1.3. Cabin Door

The cabin door of IsoPure 96 can be opened which is convenient for cleaning and maintenance.



Fig 4

1.4. Transparent Cover

The transparent cover is on the right side of the instrument which is for placing or taking out kits.

The cover can be removed which makes it convenient matching with automatic liquid transfer wrokstation.



Fig 5

2. Touch Screen



Display screen: Touch screen, mouse also can be connected for operation.

TAB: Select shortcut program.

RUN: Start the shortcut program and run the instrument.

STOP: Stop the operation.

Chapter 4 Operations

- 1. Power Connection AC 100 ~ 240V
- 2. Kits Installation

Open the cabin door, put kits on the plate position of the rotary table, press position button to turn the rotary table and place all the kits in turn. The IsoPure 96 is suitable for 96-well kits.



Fig 7

3. Detailed Operations

3.1. Start-up Interface

Turn on the instrument and make sure the door is closed before start, start-up interface will comes up.



Fig 8

Then, it will enter into "Run Prog." interface.

3.2. Run Program Interface

This interface including two modes: "shortcut" mode and "list mode", as shown in below Fig 9 and Fig 10.



Fig 9

Run Prog.	😨 Manage Pro	g. Settings	UV Sto) erilizer	() Help
List mode					
SN 1	Name yy 2	Modify time 014-11-11 12:06:16	Shortcut	Lock	Run
				=	View
Current module	e:Run prog.		9 11-11-20)14 12:24	ALLSHENG

Fig 10

In the "List mode" interface, if one program selected/activated in "Shortcut" column, the icon of the program can be displayed on shortcut interface. 8pcs of programs can be activated in maximum at the same time.

"SN", "Name", "Modify time" and "Lock" are non-editable options.

3.2.1. Run Interface

In "List mode" or "Shortcut" mode, select required program and click "Run" to enter into run interface.

When running the program, the instrument will first detect the presence of the kit on the rotary table. If no kit is found on the board of the setup program, the program will prompt to confirm whether the following steps can be continued, as shown in the figure below.



Fig 11



Fig 12

The instrument will install magnetic rod sleeve automatically. If rod sleeves are already installed on the current magnetic rod sleeve rack, "Sleeve loaded, continue?" will pop up. If no magnetic rod sleeve is detected after installing the magnetic rod sleeve, "No sleeve, continue?" will appear.



Fig 13



After the magnetic rod sleeve is successfully installed, the instrument automatically performs the following steps, please see Fig 15.

Run Pr	og.	Manage Proc.	() Help
test		Remain time:	00:01:33
Name:	STEP		Ctop
Step:	2	c .	stop
Plate:	1	9 8	Pause
Mix time:	0min		rudse
Magnet:	19sec	~ (C) m }	
Wait time:	0.0min		
Volume:	200µl	8 2	
Mix speed:	5	1	
Temp.:	OFF		
		2/3	
Current m	odule:R	un prog.>test>Running © 04-01-2019 15:32	

Fig 15

In the running interface, users can stop, pause, continue or run the program again. The plate with dark blue color, number 1, is the working plate, the red corner marks on it means the plate is running or already finished running, while blue corner mark means the plate which is ready to run, one corner mark means one running and two means two runs. A corner mark represents the plate position used once in the whole program.

After the completion of the operation, the No. 8 plate position will be automatically pushed to the transparent cover on the right side.

3.2.2. View

In the list mode or shortcut mode, select the required program, and click "View" button to enter the view interface (See Fig 16). Users can view each parameter settings of the program.

Rı	un Prog.		😰 Inage Pr	00			UV Ste) rilizer		() Help
tet2										\bigcirc
Step	Name	Plate	Mix Time (min)	Mix Map (%)	Wait Time (min)	Volume (µl)	Mix Speed (1-10)	Temp. (℃)		Run
1	-Load-	1								
2	STEP	3	1.5	80	1.0	200	5	OFF		Steps Run
3	STEP	5	0	80	1.0	200	5	OFF		
4	-Unload-	2								
										Option
										Back
Curre	nt module:R	tun pr	og.>tet2	2		G	11-14-20	14 11	:28	

Fig 16

Users can click button in the upper right corner to switch to the graphic display. Highlight displays the plate position which corresponding to the selected step, please see Fig 17 as below.

Run Prog.			Me	() Help				
t	est							<u>n</u>
9	itep	Name	Plate	Mix Time (min)	Mix Map (%)	Graphics		Run
	1	-Load-	1					
	2	STEP	1	0	80	S		Steps Run
	3	-Unload-	2					
								Option
								Back
Cu	rrer	nt module:P	Run pr	og.>test		● 04-01-2019 15	:34	

Fig 17

Then click button to magnetic parameter absorption interface which displays magnetic parameters of selected step as shown in Fig 18. "Steps Run": run the program starts from currently selected step. "Option": view settings of the program, please see Fig 19.

Ru	n Prog	Ma	onage Pr	og.	tetings UV Sterilize		i Help
test							
Step	Name	Plate	Mix Time (min)	Mix Map (%)	Mag.Parameters		Insert
1	-Load-	1			Segments: 3 Lip-lvl: 0s		
2	STEP	1	0	80	Cycle times: 1 Anti-splash: 0s Mag speed: 1		Delete
3	-Unload-	2			1st. Segment time: 1s 2nd Segment time: 3s	=	Option
					3rd. Segment time: 2s		Save
					Estimated time:22s	-	Back
urren	nt module:N	Manag	e prog.>	>test	● 04-01-2019 1	5:31	

Fig 18

Run Pro	g. Manage Prog. Findings UV Sterifizer	() Help
Option		
Heating Setup	Heating synchronization	
Cooling Setup	Cool Fan Disabled, Cooling synchronization	
		Pack
-		DACK
Current mod	dule:Run prog.>tet2>Option	Q

Fig 19

3.3. Manage Program

Users can manage all programs in "Manage Prog." interface.

	Rı	un Prog	. Manage	Prog. Se	‡ ettings	UV St	₽ erilizer		() Help
	Mar	nage Pr	og.						
	SN 1	tet2	Name	Modify 2014-11-14	time 11:19:15	Shortcut	Lock		New
	2	test		2014-11-12	14:58:06		6		Edit Save As Delete
(urre	nt mod	ule:Manage pro	g.		D 11-14-20	014 11:	29	
				Fig	g 20				

3.3.1. Management Interface

Management interface is similar to list interface in program operation, except that locking column is non-operable option in program run interface while it's an operable option in management interface. Click the lock icon to switch lock and unlock. Programs cannot be edited, saved or deleted if in lock state, please make the change in unlock state.

3.3.2. New/Edit interface

When the users click the "New" or "Edit" button, interface of Fig 23 will appear, the main difference between "New" interface and "Edit" interface is whether the program name exists or not, other operations are similar. This interface mainly includes five buttons: "Insert", "Delete", "Option", "Save" and "Back".

Insert: click "Insert" to add a new program with default parameters next to the current selected program, the new program should be with a valid name.

Delete: delete the selected program.

Option: Option is the high-level parameter setting which applies to

the entire program scope.

Save: save the program file, please note a valid program name is necessary.

est						
tep	Name	Plate	Mix Time (min)	Mix Map (%)	Mag.Parameters	Insert
1	-Load-	1			Segments: 3 Lip-lvl: 0s	
2	STEP	1	0	80	Cycle times: 1 Anti-splash: 0s Mag speed: 1	Delete
3	-Unload-	2			1st. Segment time: 1s	Option
					2nd. Segment time: 3s	
					3rd. Segment time: 2s	Save
						Back
					Estimated time:22s	

Fig 21

"Insert" interface as Fig 22.

Rur	ill 1 Pick)	Mana	🖨 age Prog.	1	# stings	UV S		() Help
test1								\bigcirc
Step	Name	Plate M	ix Time Mix (min) ((Map Wait %) (rr	Time Volu nin) (µl	me Mix Spec) (1-10)	ed Temp. (°C)	Insert
1	-Load-	1						
Step 2 S	Name TEP	Plate 5	Mix time (min) 1.5	Mix amj (1-100% <mark>80</mark>	o Wait tir) (min) 15.0	ne Volum (µl) 200	e Mix speed (1-10) 5	Temp. (°C) OFF >>
q (123	a C	e s z	r d x) t f (c (y g v	h C) i (j k n m , .	

Fig 22

Plate: select a plate position for the coming operation

Name: set a name of the step

Mix time: the mixing time for selected plate.

Mix amp: mix amplitude, the range is from 1 to 100%.

Wait time: interval time between two steps.

Volume: The volume is automatically converted to the amplitude of mixing according to the formula.

Mix speed: 10 kinds of mix speeds from 1 to 10. The higher the value is, the faster the mixing speed will be.

Temp.: The temperature can be set according to actual requirements, only No.2 and 8 wells can be set.

Click ">>>> " to enter parameter settings of magnetic absorption, see below picture please.

	Ru	in Prog.	D Manage	Prog.	¢ tettings	₽ UV Stenii	zer	i Help
	test:	1						\bigcirc
No.	Step	Name	Plate Mix Tim (min)	e Mix Map W (%)	ait Time Volun (min) (μl)	ne Mix Speed Te (1-10) (emp. ℃)	Insert
	1	-Load-	1					
St	ep	Segments (1-5)	Cycle time: (0-10)	Mag.speed (1-10)	Lip-Ivl (0-30)s	Anti-splash (0-30)s	Estimated (s)	
	2	3	3	1	0	0	48	<<
	19	st. Segment ti	ime 5	(s)	2nd. Segmen	t time <mark>6</mark> (s)	
	3r	d. Segment t	ime <mark>5</mark> (s	5)	4th. Segment	time 0 (s))	
	5t	td. Segment t	ime <mark>0 (</mark>	5)		E	sc	Enter
	1	2	3	4 5	6	7	8 9	0



Segments: setting range is 0 ~ 5, it can stop to do magnetic absorption for each segment, magnetization function will be closed if set it to 0. Cycle times: repeat magnetic absorption times.

Mag.speed: It's magnetic absorption speed when magnetic rod moves under the liquid level. 1 is the slowest while 10 the fastest.

Lip-lvl: the standing time when magnetic rods closing to liquid level after finishing magnetic absorption which is for magnetic beads gathering in case beads falling off due to liquid surface tension. Anti-splash: the standing time when magnetic rods pulling away from liquid level after finishing magnetic absorption, in case cross contamination which caused by liquid splashing due to some special sample tissues falling off.

1-5 Segment time: independent magnetic absorption time of each segment, the maximum time can reach to 999 seconds.

Estimated: The estimated magnetic absorption time of the software.It can only be displayed on the next entry after exiting the interface. 3.3.3. Option

In program new or edit interface, click the "Option" to enter the option interface. The parameters in the option are applied to the whole program as shown in the figure below.

Run Pro-	n Manage Prog.	() Help
Option		
Heating Setup Cooling Setup	Heating Type: Heating synchronization Preheating Start when 5 °C below set temp(1-50°C)	Confirm Back
Current mod	dule:Manage prog.>test>Option	

Confirm: Save all settings and exit.

Back: Not save all settings and exit.

Heating Setup: It is used to set the heating type.

> Heating synchronization: It indicates that the heating and magnetic rod sleeve action are synchronous.

> Preheating: It indicates that the heating board will rise to the set

Fig 24

temperature first, and then the magnetic rod sleeve frame starts to work.

 \succ Start when: It indicates that the magnetic rod sleeve frame starts to work when the temperature rised to the set temperature which is lower than the target temperature.

Cooling Setup: It is used to set the cooling

type. 3.3.4. Save As/Delete

In the "Manage prog" interface, click the save as button to save the file, and click the delete button to delete the file.

3.4. System Settings

In system setting interface, "Instrument", "Date&time", "Language", "Air ejector fan", "Im.&export" and "Upgrade" can be modified.



Fig 25

3.4.1. System Time

Click "Date & time" button to enter modification interface, as shown in the figure below.

Run Piteg Mañage Prog. Settings UT Sterifizer	() Help
Date&time	
Date: (MM/DD/YYYY) 12 / 21 / 2016 - +	
Time: (HH:MM:SS) 20 : 03 : 46 - +	Ok Back
Current module:Settings>Date&time	

Fig 26

The date and time can be adjusted by "+" or "-" buttons.

3.4.2. Language Settings

Two options: Chinese and English.

Run Proxi Manage Prog	¢ ∲ ings UV Sterilizer	() Help
Language settings		
●中文 ● English		Ok Back
Current module:Settings>Language settings	G 12-21-2016 20:03	

Fig 27

Select the language , press "Ok " to save the modification.

3.4.3. Fan

Click "Air Ejector Fan" to choose "On" or "Off".

Run Prosi	¢ ettings	€ Sterilizer	③ Help
Air ejector fan			
⊙ On ● Off			
			Back
Current module:Settings>Air ejector fan	© 12-21	1-2016 20:04	

Fig 28

3.4.4. Import and Export

Click the "Im.&export" to below interface.

Run Proci Manage Pr	og Settings	UV Sterilizer	() Help
Import&export			
Import	Exp	port	
			Back
Current module:Settings>Impo	ort&export	■ 12-21-2016 20:04	1

Fig 29

Press the "Import " to enter U disk directory and then select the program needed, press the "Ok" to import.

Press the "export" button to enter the system directory, select programs and then "Ok" to export files to the U disk.

3.4.5. Software Upgrade

Click "Upgrade" to upgrade interface, see Fig 30 please.

Run Prog. Manage Prog. Settings UP Sterrizer	i Help
Softwre upgrade	
InterfaceUpdate	
0%	Back
Current module:Settings>Softwre upgrade	

Fig 30

Insert the U disk with the latest software in, and then upgrade the interface software or control software of the instrument.

3.4.6. Operation Record

Each run of the program automatically generates a running record.

Run Pilorj	Manage Proc.	Settings	∲ Sterilizer	③ Help
Settings				
SN	Name	Time	Select	Search
1	tet2	2014-11-14 11:24:26		
2	tet2	2014-11-14 11:24:23		Export
3	tet2	2014-11-14 11:24:23		Pre nacie
4	tet2	2014-11-14 11:24:23		Live bade
5	tet2	2014-11-14 11:24:23		Next page
6	tet2	2014-11-14 11:24:22		Pack
7	tet2	2014-11-14 11:24:22		DdCK
			1/13	
urrent modul	e:Settings>Log	9 11-14	-2014 11:30	

Fig 31

Users can trace records by "Search" button, see Fig 32 please.

Run Prov	Manage Pro	Settings	€ Sterijlizer	() Help
Settings				
SN	Name	Time	Select	Search
1	tet2			
2	tet2 S	tart date 2018 0/8 0/8		Export
3	tet2	nd date: 2019 08 08		Pre nacio
4	tet2	nu uate. 2018 p8 98		1 to brade
5	tet2	Confirm		Next page
6	tet2			Pack
7	tet2	2014-11-14 11:24:22		DACK
Current modul	e:Settings>Log	© 11-1	1/13 4-2014 11:30	\bigcirc

```
Fig 32
```

Log exports can be done through the export key.

3.4.7. Lighting

At the rith bottom of the screen, if icon " \mathbf{M} " appears, it means the lighting is on while lighting is off if the icon displays " \mathbf{M} ". Users can click the icon to switch between on and off.

3.5. UV Sterilization

The UV disinfection interface is mainly used for the opening and closing of the UV lamp. The time can be set by pressing "+" or " -" button. The program can automatically determine half of the set time to sterilize the half circle of the rotary table, with a minimum of 2min, as shown in the figure below.

Run Prog. Manage Prog.	D Settings	∂ UV Sterilizer	() Help
UV Sterilizer			
Sterilization time: (hh:mm) 00: 30	- +		Start
00:00:0	00		
Current module:UV sterilizer	G	1-14-2014 11:30	

Fig 33

3.6. Help

Help interface displays help information and version as shown in the figure below.

lelp	
Run prog. Janage	Program Running Shortcut mode: Icon shows the checked programs. List mode: List shows all programs within the instrument. Run: Run the currently selected program.
ettings UV terilizer	View: View parameters and options of the program. Running interface Stop/Run again: Stop or run the program again. Pause/Continue: Pause or continue the program. Back: Return to the previous interface
ersions	back. Retain to the previous interface.

Fig 34

Chapter 5 Trouble Shooting

1. Troubleshootings

No.	Symptom	Causes Analysis	Method	
1		Power not connected	Check power	
		Switch failure	Replace switch	
	No display after switch on	Fuse failure	Replace fuse (5X20 250V 8A)	
		Others	Contact with Distributor	
2	No UV light	UV light failure	Replace light tube	
			Contact with distributor	
3	No light	Light failure	Replace light tube	
5	No light		Contact with distributor	
	Can not stop			
4	automatically after	Sensor failure	Contact with distributor	
	opening the door.			
E	Big variance between	Soncor failura	Contact with distributor	
5	temperature	Sensor failure	Contact with distributor	
	No heating for heating	Sensor failure		
6	strip	Hostor failuro	Contact with distributor	
-	Instrument con't run	Controller failure	Contact with distributor	
'	Instrument can't run	Motor failure	Contact with distributor	
		Guide rail installed		
8		incorrect		
	Abnormal sound during working	Motor failure	Contact with distributor	
		Synchronous belt		
		abrasion		
9	Press button not working	Press button failure	Contact with distributor	

2. Software Error Alarm List

Fault type	Fault name	Error
Temperature	T1 Overheat	
(code: 0)	T1 Open circuit	E015
	T1 Short circuit	E016
	Baffle motor sensor	E404
	Rotary motor sensor damaged	E405
Electric machinery	Lifting platform motor sensor damaged	E406
(code:4)	Push rod motor sensor damaged	E407
	Motor position sensor of magnetic rod sleeve damaged	E425
	Magnetic rod motor position sensor damaged	E415
	The clock crystal fault	E702
LCD, Crystal	Memory chip E2P damaged Setting parameters lost	
oscillator, Storage (code: 7)	New instrument, instrument type hasn't been set	E703
	Zero has not been calibrated, the instrument zero calibration is not in the 3 well will lead to the program does not working	
Communication	Moving parts online failure	E801
(code: 8)	Rotary parts online failure	E802

Chapter 6 Accessory

No.	Name	Specs.	Unit	Qty.	Remark
1	Power cord		Рс	1	
1	Mouse	Logitech	Рс	1	

Chapter 7 Abbreviations and Tags

1. Abbreviations

The following Abbreviations are for reference and will appear in this operation manual.

A	ampere
AC	alternating current
V	volt
Hz	Hertz
W	watt
USB	universal serial bus
SD	secure digital card
WiFi	wireless Fidelity
Kg	kilogram
mm	millimeter
μĹ	microliter
hpa	hectopascal
Ĉ	degree centigrade
cv	stability
ТАВ	tab
RUN	run
STOP	stop

2. Tags

	Warning label
	Heating label
CE	CONFORMITE EUROPEENNE
	Be careful of hands

Following marks appear on the instrument

Notes