# **Operation Manual**

V1.3

# AccuGen<sup>™</sup> Series Nucleic Acid Purification

# System

Accugen XTR-96



# AccuGen™

**Jant Pharmacal Corporation** 

## Foreword

Thank you for purchasing our AccuGen<sup>™</sup> XTR-96 series Nucleic Acid Purification System. This Manual describes the function and operation of the instrument. In order to use the instrument properly, please read this manual carefully before using. Keep it for later use when you meet withdifficulties.

#### Opening Check

Please check the Instrument and Accessories according to the packing list when you first open the packing case. If anything is wrong or missing, please contact the distributor or the manufacturer.

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## 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  ${\rm I}$  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 of any injury or outof warranty. If service is required please contact Jant Pharmacal Corp 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 powerline 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.



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 vents on this instrument are designed for ventilation. Do not cover them in case of overheating. 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 Jant Pharmacal Corp:

- $\bigwedge$
- Instrument was rained or watered.

Liquid enters into the Instrument:

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

Indicates disposal instruction.



DO NOT throw this unit into a municipal trash bin when this unit has reached the end of its lifetime. In order to ensure utmost protection of the global environment and minimize pollution, please recycle this unit.

#### 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: <u><</u>70% Atmosphere pressure range: 500 ∼ 1060hpa Locate it in a well-ventilated room, away from corrosive gas.

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## Chapter 1 Introduction

AccuGen<sup>™</sup> XTR-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 1~96 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: :570% Input Voltage: AC 100,...,240V, 50Hz/60Hz

#### 2. Basic Parameters

Model Parameters	AccuGen™ XTR-96						
Principle	Magnetic Particle Method, Magnet type						
Sample Volume	olume S0µL-I000µL						
Throughput	96						
Stability	CV:55%						
Extraction time	10 ~ 60min/time						
Temperature control module	Ambient temperature~ 120°C for lysis and elution						
Heating time Heating time (Ambient temperature ~120 °C) 7 minut							
Temp. Accuracy ±1°C							
Vibrateand mix	10 different speeds for option						
Operation	7 inch color touch screen, mouse can be connected						
Programs	8 groups of programs can be preset, and can store 100 groups of programs						
Program Including create, edit, delete and protocol mode management							
Extension interface	With USB port and Ethernet port						
Network	Extended Ethernet remote control, WiFi function,4G						
Power Supply	AC100-240V, 50Hz/60Hz, 450VA						

#### 3. Overall Dimensions

Unit: mm





Fig 1

## **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





Fig 3

AccuGen<sup>™</sup> XTR-96 Operation Manual

#### 1.3. Cabin Door

The cabin door of AccuGen<sup>™</sup> XTR-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 work station.



AccuGen<sup>™</sup> XTR-96 Operation Manual

#### 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 AccuGen<sup>™</sup> XTR-96 is suitable for 24-well kit, 48-well kit and 96-well kit separately.



#### 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 come 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.

Run Prog. Shortcut	😇 Manage Prog.	<b>S</b> ettings		<b>∂</b> erilizer	<b>③</b> Help
tet2					Run
					View List
Current module:Ru	un prog.		€ 11-14-20	014 11:28	
		Fig 9			
Run Prog. Manage Prog.	😨 Manage Prog.	Settings		<b>₽</b> erilizer	③ Help
SN Na	ame N	lodify time	Shortcut	Lock	
1 tet2	W81505	11-14 11:19:16	In the second second second	2	New
2 test	2014-	11-12 14:58:00	5 🗹	2	Edit
					Save As
					Delete
				-	
Current module:M	anage prog.		€ 11-14-20	014 11:29	

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.

Run	II Prog.	Manage Prog.	() Help
test		Remain time:	00:01:36
Name: Step: Plate:	-Load- 1 1	Plate Checking	Stop Pause
Current	module:R	1/3 un prog.>test>Running ● 04-01-2019 15:32	

Fig 11

Run		Telenge → Sterilizer	(i) Help
test		Remain time:	00:01:36
Name:	-Load-		Stop
Step:	1		Stop
Plate:	1	No plate on 1 ,continue?	Pause
		Yes NO	
		1/3	
Current i	module:R	un prog.>test>Running	
		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

Run	Prog.	Manage Proc.	() Help
test		Remain time:	00:01:36
Name: Step:	-Load- 1		Stop
Plate:	1	No sleeve, continue?	Pause
		1/3	
Current	module:R	un prog.>test>Running	
		Fig 14	

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

Run Pr	og.	Manage Prog.	() Help
test		Remain time:	00:01:33
Name:	STEP		
Step:	2	s	Stop
Plate:	1		Pause
Mix time:	0min		r ddae
Magnet:	19sec		
Wait time:	0.0min		
Volume:	200µl	8 2 2	
Mix speed:	5	1	
Temp.:	OFF		
		2/3	
Current m	odule:R	un prog.>test>Running	



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.

Ru	n Prog.	Ma	o Inage Pr	00	<b>*</b>		€ UV Ste	i li ji Hizer		() Help
tet2										$\bigcirc$
Step	Name	Plate	Mix Time (min)	Mix Map (%)	Wait Time (min)	Volume (µl)	Mix Speed (1-10)	Temp. (°C)		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
									-	
urren	nt module:F	Run pr	og.>tet2	2		G	11-14-20	14 11	:28	<b>#</b>
					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.





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.

test	n Prou	THE	anage Pr		Sterlize		Help
Step	Name	Plate	Mix Time (min)	Mix Map (%)	Mag.Parameters		Insert
1	-Load-	1			Segments: 3 Lip-lvl: 0s		n - Caralit
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

Fig 18

Run Pr	og. Manage Proo	<b>()</b> Hielp
Option		
Heating Setup	Heating synchronization	
Cooling Setup	Cool Fan Disabled,Cooling synchronization	
		Back
Current me	odule:Run prog.>tet2>Option	

Fig 19

#### 3.3. Manage Program

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

	un Prog.	o Manage F	Prog. Se	¢ ettings	Same Bernard have	<b>?</b> erilizer		<b>i</b> Help
Mar SN	nage Pro	og. Name	Modify	time	Shortcut	Lock		New
1	tet2		2014-11-14	11:19:15	$\checkmark$	<u>-</u>		New
2	test		2014-11-12	14:58:06		<b>1</b>		Edit Save As Delete
Curre	nt modu	ile:Manage prog			<b>9</b> 11-14-20	014 11	:29	

Fig 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.

"Insert" interface as Fig 22.

Ru	n Pron.	<b>D</b> Manage	Prog.	<b>A</b>	€ N Ste	Hize	i) Help
test1	1		112				$\bigcirc$
Step	Name	Plate Mix Tim (min)	e Mix Map (%)		ume Mix Speed J) (1-10)	Temp. (°C)	Insert
1	-Load-	1					
Step 2	Name STEP	Plate (I	c time Mix nin) ( <u>1-1</u> 5 80	amp Wait ti .00%) (min 15.0		Mix speed (1-10) 5	Temp. (°C) OFF >>
q	w a	e s d	r I f	t y	u h i	i (	• P
		z x	C		b n	m	
123	Esc				JL,		Enter

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.



```
Fig 23
```

Segments: setting range is O  $\sim$  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 Pros)	Manage Prog.		↓W Sterilizer	() Hielp
Option				
Heating Setup Cooling Setup	Heating Type: Heating synchro Preheating Start when 5		temp(1-50°C)	Confirm Back
Current modu	ile:Manage prog.>test	>Option	04-01-2019 15:31	

Fig 24

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

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.

Run Prog.	<b>D</b> Manage Prog.	¢ Settings	⊕     UV Sterilizer	<b>i</b> Help
Instrument	Date&time	<b>Eanguage</b>	Air ejector fan	
		V.		
Im.&export	Upgrade	Log		
Current module:Setti	ngs	Ei of	<b>D</b> 04-01-2019 15:30	

Fig 25

#### 3.4.1. System Time

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



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

#### 3.4.2. Language Settings

Two options: Chinese and English.



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

#### 3.4.3. Fan

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



Fig 28

#### **3.4.4.** Import and Export

Run Pros. Manage Proc.	Settings	• • Ily Sterilizer	() Help
Import&export			
Import	Export		
Current module:Settings>Import&export	G	04-01-2019 15:29	Back
F	ig 29		

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

Press the "Import " to enter U disk directory and then select the program needed, press the "0 k" to import.

Press the "export" button to enter the system directory, select programs and then "0 k" to export files to the U disk.

#### 3.4.5. Software Upgrade

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

Run Pros. Manage Prog. Settings	() Help
Softwre upgrade	
Interface Update Control Update1 Control Update2	
0%	Back
Current module:Settings>Softwre upgrade © 11-14-2014 11:30	

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.

GU Ruñ Prosi	Manage Prog	¢ Settings	€ Sterifizer	() Help
ettings				
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 page
4	tet2	2014-11-14 11:24:23	1	THE PASE
5	tet2	2014-11-14 11:24:23		Next page
6	tet2	2014-11-14 11:24:22		Develo
7	tet2	2014-11-14 11:24:22		Back
			1/13	

Fig 31

Run Prog	C Manage Pro	Settings		() Help
ettings				
SN	Name	Time	Select	Search
1	tet2			
2	tet2	Start date 2018 0/8 0/8		Export
3	tet2	End date: 2018 Ø8 Ø8	Bro	Pre page
4	tet2	Liiu uate. 2016 po 96	<b></b>	Lite hadle
5	tet2	Confirm		Next page
6	tet2			Back
7	tet2	2014-11-14 11:24:22		Dack
			1/13	

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

Fig 32

Log exports can be done through the export key.

#### 3.4.7. Lighting

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

#### 3.4.8. Auxiliary function

Plate position switch function and Sleeve automatic installation function can be used with the software. In the plate position switch interface as Fig 33 below, click if to choose the plate that you want to switch it to the position of right transparence window(as the plate 2 position in the Fig 33).



Click Sleeve button to choose the plate position which you want to automatically install/uninstall the sleeve as Fig 34 below.



#### 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. Setti	<b>\$ ♀</b> ings UV Sterilizer	<b>i</b> Help
UV Sterilizer		
Sterilization time: (hh:mm) 00: 30	+	Start
00:00:00		
Current module:UV sterilizer	<b>G</b> 11-14-2014 11:30	

Fig 36

#### 3.6. Help

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

Run Proe	g. Manage Prog. Settings UV Sterilizer Help							
Help								
Run prog.	Program Running Shortcut mode: Icon shows the checked programs.							
Manage prog.	List mode: List shows all programs within the instrument. Run: Run the currently selected program.							
settings	View: View parameters and options of the program. Running interface Stop/Run again: Stop or run the program again.							
UV Sterilizer	Pause/Continue: Pause or continue the program. Back: Return to the previous interface.							
Versions								
Current mod	dule:Help © 11-14-2014 11:30							

Fig 37

## Chapter 5 Trouble Shooting

## 1. Troubleshootings

1Power not connectedCheck power1No display after switch onSwitch failureReplace switchFuse failureReplace fuse (SX20 250V)OthersContact with Distributor2No UV lightUV light failureReplace light tube Contact with distributor3No lightLight failureReplace light tube Contact with distributor4Can not stop automatically after opening the door.Sensor failureContact with distributor	
1   No display after switch on   Fuse failure   Replace fuse (SX20 250V)     Fuse failure   Contact with Distributor     2   No UV light   UV light failure   Replace light tube Contact with distributor     3   No light   Light failure   Replace light tube Contact with distributor     4   Can not stop automatically after opening the door.   Sensor failure   Contact with distributor	
Fuse failureReplace fuse (SX20 250V)OthersContact with Distributor2No UV lightUV light failureReplace light tube Contact with distributor3No lightLight failureReplace light tube Contact with distributor4Can not stop automatically after opening the door.Sensor failureContact with distributor	
2No UV lightUV light failureReplace light tube Contact with distributor3No lightLight failureReplace light tube Contact with distributor4Can not stop automatically after opening the door.Sensor failureContact with distributor	8A)
2 No OV light OV light failure Contact with distributor   3 No light Light failure Replace light tube Contact with distributor   4 Can not stop automatically after opening the door. Sensor failure Contact with distributor	
3No lightLight failureContact with distributor4Can not stop automatically after opening the door.Sensor failureContact with distributor	
4 automatically after Sensor failure Contact with distributor opening the door.	
Big variance betweenBig variance between5actual and displaySensor failureContact with distributortemperatureContact with distributor	
6 No heating for heating Sensor failure Contact with distributor	
strip Heater failure	
7 Instrument can't run Controller failure Contact with distributor	
Motor failure	
Guide rail installed incorrect	
8 Abnormal sound during 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		
Temperature	TI Overheat		
(code: O}	TI Open circuit	E015	
	TI Short circuit	E016	
	Baffle motor sensor	E404	
	Rotary motor sensor damaged	E405	
Electric machinery	Lifting platform motor sensor damaged	E406	
stroke position (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	CD, Crystal		
oscillator, Storage (code: 7)	llator, Storage		
Communication	Moving parts online failure	E801	
(code: 8}	Rotary parts online failure	E802	

No.	Name	Specs.	Unit	Qty.	Remark
1	Power cord		PCS	1	
2	Mouse	Logitech	PCS	1	
3	U disk	8g	PCS	1	For upgrading software and transferring programs

## Chapter 6 Accessory

## Chapter 7 Abbreviations and Tags

#### 1. Abbreviations

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

А	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
μL	microliter
hpa	hectopascal
0C	degree centigrade
CV	stability
ТАВ	tab
RUN	run
STOP	stop

## AccuGen™ XTR-96 Operation Manual

### 2. Tags

	Warning label
	Heating label
CE	CONFORMITE EUROPEENNE
	Be careful of hands

Following marks appear on the instrument

#### Notes