UGAIYA

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UGAIYA

Rapid Readout Biological System



☆ Rapidest Operation

☆ Accurate Readouts

☆ Leading Technology

Auto Reader

Ugaiya Auto Reader adopts spectrum analysis technology to monitor the fluorescence changes of the Bacillus Stearothermophilus with special enzyme to rapidly judge whether there is surviving spores. The Reader is compatible with most popular rapid readout biological indicators in the market and can be used to validate the sterilization efficacy of sterilizers. The Rapid Reader is able to make judgements within 5~240 minutes to ensure implantation operations can be carried out in time, and in the meantime a report can be printed for traceability.



UG-AR series Reader for various types of rapid readout B. I.
Steam 5/20/60/180min, VH_2O_2 5/20min, EO 60/240min, LTSF 20/60min.



Features

Language
Multiple languages.

Display
Incubation time and temperature are displayed at the same time for convenient checking.

Indication Light
Incubation status and working status of the incubator can be shown by the indication light.

Progress Checking
Display the current status, incubation countdown fluorescence strength (percentage) and incubation result.

Advantages

Smart Recognition
- Most non-BI articles can be recognized. Available BI can be indicated automatically without manual confirmation.
- If you want to check during the process, put it back within specific time, the system will continue to incubate.
- Touch the screen to stop the alarm.

Smart Cloud Service
- Possibility of user change with incubations in progress.
- Incubation and sterilization record can be associated and checked by Internet browser & PC software.

Smart Monitoring
Open communication protocol compatible with traceability system for instant reporting.

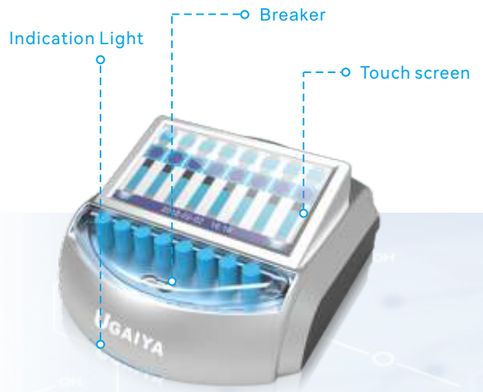
Smart Checking
- History incubation record can be checked by associated monitoring software.
- History report can be customized and printed.

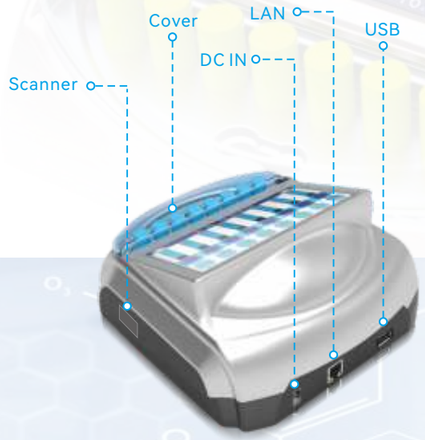
Smart Alarm
- Instant self-test, fault safety protection.
- Visual and sound alarm for fault and result.

Smart User-Friendly Design
With an easy handling as well as a clear and well arranged display for real-time monitoring of the incubation process.



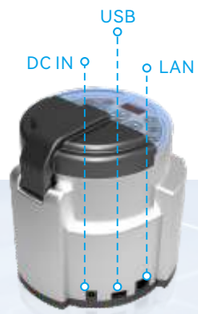
Structure & Parameters





Model	UG-AR400, UG-AR500, UG-AR600, UG-AR700, UG-AR800, UG-AR900		
For BI types	**UGBI series**	Screen	7" TFT touch screen
Rated Power(W)	20	Incubation Slots	8
Power Supply	DC 12V 3A	Net Weight (kg)	1
Ambient Temp.	5℃-40℃	Exterior Dimension	246X214X100(mm)
Ambient RH	≤95% (Non-condensing)	USB	Y
Ambient Pressure	Atmospheric Pressure	LAN	Y
Incubation Temp.	**58±2℃ / 36±1℃**	Input	~100V-240V 50/60Hz
Judgement Time	**7sec~240 min**	Output	DC 12V 3A







Model	UG-AR100, UG-AR200, UG-AR300		
For BI types	**Ten types**	Printer	**Built-in**
Rated Power(W)	20	Incubation Slots	3
Power Supply	DC 12V 3A	Net Weight (kg)	0.7
Ambient Temp.	5℃-40℃	Exterior Dimension	160X160X165(mm)
Ambient RH	≤95% (Non-condensing)	USB	Y
Ambient Pressure	Atmospheric Pressure	LAN	Y
Incubation Temp.	**58±2℃ / 36±1℃**	Input	~100V-240V 50/60Hz
Judgement Time	**7sec~240 min**	Output	DC 12V 3A

Rapid Readout Biological Indicator

Advantages



- Provides results in 5~240 minutes.
- Applicable for 121°C gravity & 132~135°C vacuum steam, EO, LTSF and VH2O2 sterilization cycles.
- Self-contained biological indicators significantly reduce possibility of cross infection, minimizing false positives and assuring more precision results.
- Fast result time to ensure quarantine every load and eliminate recalls.
- It helps reduce the costs associated with fighting infections both money and time wasted.

Parameters

Biological indicator for STEAM

Application	**Steam (vacuum & Gravity) sterilization processes**
Model	UGBI0301, UGBI0101, UGBI0201, UGBI0206, UGBI0207, UGBI0501
Organism	G-stearothermophilus (ATCC7953)
Population (mean/strip)	≥1.0x10⁶c.f.u.
D-value	≥1.5 min(121℃ steam)
Incubation Time	5 mins ~ 24 hours (readout)
Frequency of Use	Test 1 time every sterilization cycle
Packing	50pcs/Box

Biological indicator for VH2O2

Application	**Vaporized hydrogen peroxide sterilization processes**
Model	UGBI0102, UGBI0107, UGBI0108, UGBI0502
Organism	G-stearothermophilus (ATCC7953)
Population (mean/strip)	≥1.0x10⁶c.f.u.
D-value	≥1s (50℃, 5mg/L VH2O2)
Incubation Time	5 mins ~ 24 hours (readout)
Frequency of Use	Test 1 time every sterilization cycle
Packing	50pcs/Box

Biological indicator for EO

Application	**Ethylene oxide sterilization processes**
Model	UGBI0401, UGBI0402, UGBI0403, UGBI0503
Organism	Bacillus atrophaeus (ATCC9372)
Population (mean/strip)	≥1.0x10⁶c.f.u.
D-value	≥2.5 min (54±1°C,60±10% RH, EO 600 ±30mg/L)
Incubation Time	1 hour ~ 24 hours (readout)
Frequency of Use	Test 1 time every sterilization cycle
Packing	50pcs/Box

Biological indicator for FORM

Application	**Steam/formaldehyde sterilization processes**
Model	UGBI0103, UGBI0104, UGBI0105, UGBI0505
Organism	G-stearothermophilus (ATCC7953)
Population (mean/strip)	≥1.0x10⁶c.f.u.
D-value	≥2.5 min (54±1°C,60±10% RH, EO 600 ±30mg/L)
Incubation Time	20 mins ~ 24 hours(readout)
Frequency of Use	Test 1 time every sterilization cycle
Packing	50pcs/Box

Biological indicator for DRY

Application	**Dry heat sterilization processes**
Model	UGBI0504
Organism	G-stearothermophilus (ATCC7953)
Population (mean/strip)	≥1.0x10⁶c.f.u.
D-value	≥1.5 min(121℃ steam)
Incubation Time	24 hours (readout)
Frequency of Use	Test 1 time every sterilization cycle
Packing	50pcs/Box

Biological indicator for water bath

Application	**Water bath sterilization processes**
Model	UGBI0506
Organism	G-stearothermophilus (ATCC7953)
Population (mean/strip)	≥1.0x10⁶c.f.u.
D-value	≥1.5 min(121℃ steam)
Incubation Time	24 hours (readout)
Frequency of Use	Test 1 time every sterilization cycle
Packing	50pcs/Box

Incubator

UG-AI series Incubator for 24 ~ 48 hours readout biological indicators.



Advantages

Safety
• Double temperature control to limit temperature safely.

Smart Checking
• Equal temperature automatically without deviation and no need to calibrate.

Smart User-Friendly Design
•Incubation rack is dismountable mobile and rotatory.

Features

Automatically
• Automatic malfunction detecting and error code display.

Display
• Real time temperature display.
• LED display

Saving
• Average power: 8W.

Parameters

	Model	UG-AI200, UG-AI400, UG-AI600
Electrical Data	Rated Power(W)	25
	Power Supply	DC 12V 3A
Functions	Temperature Range	From Temp. Room to 80 degree
	Warming-up Time(from 20 to 56degree)	About 10mins
	Temp. Precision	±0.5℃
	Display Precision	0.1 ℃
	Incubation Slots	12~19
	Screen	LED
Dimensions	Net Weight(kg)	1.2
	Exterior Dimension(W*D*H)	205x135x215(mm)
Power Adaptor	Input	~100V-240V 50/60Hz
	Output	DC 12V 3A

Biological Indicators

Parameters



Biological Indicator for Steam	
Model	UGBI0501
Packing	50pcs/Box
Organism	G-stearothermophilus (ATCC7953)
Population (mean/stip)	≥1.0x10^5 c.f.u.
D-value	≥1.5 min(121℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Biological Indicator for VH_2O_2	
Model	
Packing	50pcs/Box
Organism	G-stearothermophilus (ATCC7953)
Population (mean/stip)	≥1.0x10^6 c.f.u.
D-value	≥1s (50℃, 2.3mg/L VH_2O_2)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Biological Indicator for EO	
Model	UGBI0503
Packing	50pcs/Box
Organism	Bacillus atrophaeus ATCC 9372
Population (mean/stip)	≥1.0x10^6 c.f.u.
D-value	≥2.5min (54℃, 60% RH, 600mg/L EO)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle

Parameters



Biological Indicator for Dry Heat	
Model	UGBI0504
Packing	50pcs/Box
Organism	Bacillus atrophaeus ATCC 9372
Population (mean/stip)	≥1.0x10^6 c.f.u.
D-value	≥2min (160±1℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Biological Indicator for LTSF	
Model	UGBI0505
Packing	50pcs/Box
Organism	G-stearothermophilus (ATCC7953)
Population (mean/stip)	≥1.0x10^{6}c.f.u.
D-value	≥6min (1±0.01mol/L, 60±0.5℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Biological Indicator for Water Batch	
Model	UGBI0506
Packing	50pcs/Box
Organism	Bacillus subtilis ATCC 35021
Applicable temperature	105~121℃
Population (mean/stip)	≥1.0x10^6 c.f.u.
D-value	≥1.5min (121℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle
Structural Style	Spores and Culture Medium are separate

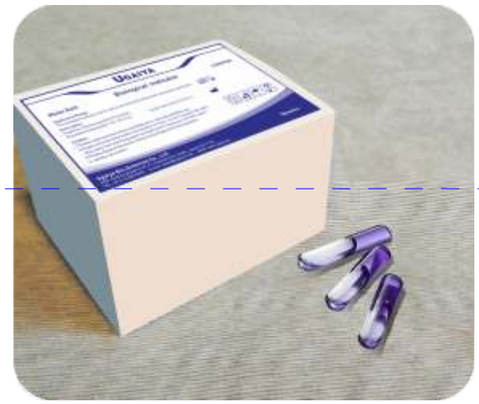
Parameters



Biological Indicator for Water Bath	
Model	UGBI0506B
Packing	45pcs/Box (include 5 negative control)
	G-stearothermophilus (ATCC7953)
	≥1.0x10^6 c.f.u.
D-value	≥1.5min (121℃)
	24~48H
Volume	1.8ml
Structural Style	Spores and Culture Medium are mixed
Applicable temperature	105~121℃ & 121~135℃
Frequency of Use	Test 1 time every sterilization cycle



Biological Indicator for Water Bath	
Model	UGBI0506C
Packing	45pcs/Box(include 5 negative control)
Organism	G-stearothermophilus (ATCC7953)
Population (mean/stip)	≥1.0x10^6 c.f.u.
D-value	≥1.5min (121℃)
Incubation Time	24~48H
Volume	0.7ml
Structural Style	Spores and Culture Medium are mixed
Applicable temperature	105~121℃ & 121~135℃
Frequency of Use	Test 1 time every sterilization cycle



Biological Indicator for Water Bath	
Model	UGBI0506D
Packing	45pcs/Box(include 5 negative control)
Organism	G-stearothermophilus (ATCC7953)
Population (mean/stip)	≥1.0x10^6 c.f.u.
D-value	≥1.5min (121℃)
Incubation Time	24~48H
Volume	0.3ml
Structural Style	Spores and Culture Medium are mixed
Applicable temperature	105~121℃ & 121~135℃
Frequency of Use	Test 1 time every sterilization cycle

Spore strips & Mini strips

Parameters



Spore strips For Steam	
Model	UGBS0501
Packing	100pcs/Pack
Organism	G-stearothermophilus ATCC7953
Population(mean/strip)	≥1.0x10^{5}c.f.u.
D-value	≥1.5 min(121°C)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Spore strips For VH_2O_2	
Model	UGBS0502
Packing	100pcs/Pack
Organism	G-stearothermophilus ATCC7953
Population(mean/strip)	>=1.0x10^{6}c.f.u.
D-value	⩾1s (50℃,2.3mg/L VH_2O_2)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Spore strips For Dry Heat/EO	
Model	UGBS0503
Packing	100pcs/Pack
Organism	Bacillus atrophaeus ATCC 9372
Population(mean/strip)	>=1.0x10^{6}c.f.u.
D-value	⩾2.5 min(54℃,60% RH,600mg/L EO) ≥2 min(160±1°C)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle







Parameters

Mini strips For Steam	
Model	UGMS0501
Packing	100pcs/Pack
Organism	G-stearothermophilus ATCC7953
Population(mean/strip)	≥1.0x10^{5}c.f.u.
D-value	≥1.5 min(121°C)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle

Mini strips For VH_2O_2	
Model	UGMS0502
Packing	100pcs/Pack
Organism	G-stearothermophilus ATCC7953
Population(mean/strip)	≥1.0x10^{6}c.f.u.
D-value	⩾1s (50℃,2.3mg/L VH_2O_2)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle

Mini strips For Dry Heat/EO	
Model	UGMS0503
Packing	100pcs/Pack
Organism	Bacillus atrophaeus ATCC 9372
Population(mean/strip)	≥1.0x10^{6}c.f.u.
D-value	⩾2.5 min(54℃,60% RH,600mg/L EO) ≥2 min(160±1°C)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle

Parameters



Spore strips For H_2O_2 space disinfection	
Model	UGBS0502B
Packing	100pcs/Pack
Organism	G-stearothermophilus ATCC7953
Population(mean/strip)	>=1.0x10^{6}c.f.u.
D-value	>=1.5 min(1500mg/m^3 15~30℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Spore strips For H_2O_2 space disinfection	
Model	UGBS0502C
Packing	100pcs/Pack
Organism	G-stearothermophilus ATCC7953
Population(mean/strip)	>=1.0x10^{6}c.f.u.
D-value	>=1.5 min(1500mg/m^3 15~30℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Spore strips For H_2O_2 space disinfection	
Model	UGBS0502E
Packing	100pcs/Pack
Organism	Bacillus atrophaeus ATCC 9372
Population(mean/strip)	>=1.0x10^{6}c.f.u.
D-value	>=1.5 min(1500mg/m^3 15~30℃)
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle

Culture Medium

Parameters



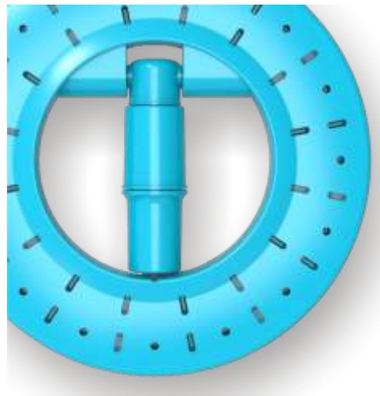
Culture Medium For Steam/VH_2O_2/LTSF	
Model	UGIM0501
Packing	50pcs/Box
Initial color	Purple
Final color(positive)	Yellow
Medium volume	2ml
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle



Culture Medium For Dry Heat/EO	
Model	UGIM0503
Packing	50pcs/Box
Initial color	Blue
Final color(positive)	Yellow
Medium volume	2ml
Incubation Time	24~48H
Frequency of Use	Test 1 time every sterilization cycle

Process Challenge Device Series

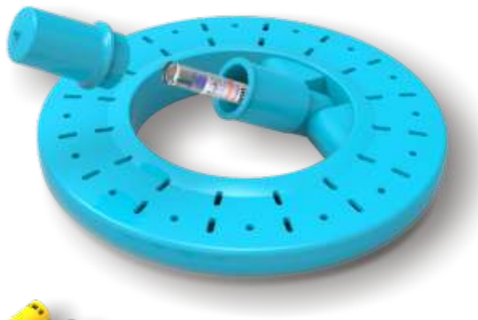
For VH_2O_2



Process Challenge Device for VH_2O_2 Sterilizer

UGPD-02

Advanced Monitoring/ Validation Tools



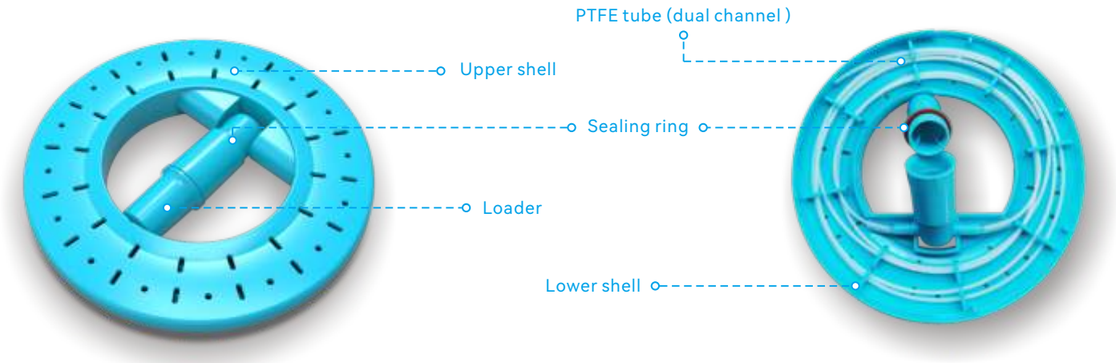


It is very important to ensure VH_2O_2 Sterilization result in each cycle, as it be effected from many factors:

- Concentration of Agent(Hydrogen Peroxide)
- Vaporization Quality
- Injection Volume
- Temperature of Chamber
- Cleaning/dryness of loaded instruments
- Packing method
- Loading method
- Etc.

Structure

The inner diameter of the PTFE tube is 1mm and the length is 2 meters



Advantages

Rapidly and Accurately

After the PCD can be used with our rapid BI, the result can be obtained within few minutes. The result is accurate and meets international standards.

Very easy to load

It is very convenient to load and take out BI. Routine training is carried out in the reader to increase the turnover rate.

Ensure sterilization results

Completely simulate the structure of lumen instruments to ensure the sterilization results of lumen instruments.

Safe and reliable

Both the compatibility of materials and the sealing are also very good, which ensures the high challenge resistance and stability of PCD.

Frequency of Biological Testing should be at least once per day or in accordance with your policy.

Priority of sterilization monitoring Domestic laws ISO standard Manufacturer's instructions.

Naked BI & CI(Chemical Indicator) can not check the sterilization results for lumen instruments:

- Naked BI is only to check instruments without lumen
- Class 1 CI is only to ensure the sterilizer injected agent (Hydrogen Peroxide) into the chamber normally
- Normal PCD is to ensure the sterilization results, but needs the incubation time

Loading of BI to be sterilized



CI for VH_2O_2 PCD

Before use



Used(qualified)

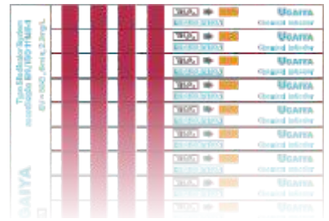


Used(unqualified)



Type 5

Rapidly and Accurately
Safe and Economy





For Steam



Process Challenge Device for Steam Sterilizer

UGPD-01

Advanced Monitoring/ Validation Tools

It is very important to ensure Steam Sterilization result for each cycle, as it is effected by many factors:

- Saturation of steam
- Steam uniformity
- Temperature of chamber
- Cleaning/dryness of loaded instruments
- Packing method
- Loading method
- Etc.

Advantages

Rapidly and Accurately

After the PCD can be used with our rapid BI, the result can be obtained within few minutes. The result is accurate and meets international standards.

Very easy to load

It is very convenient to load and take out BI. Routine training is carried out in the reader to increase the turnover rate.

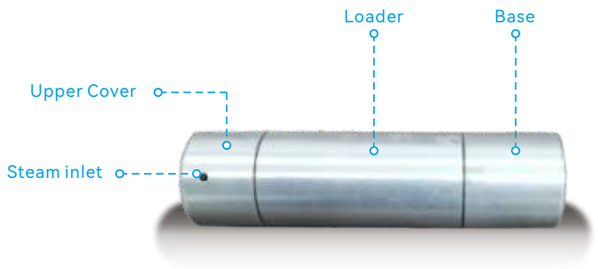
Ensure sterilization results

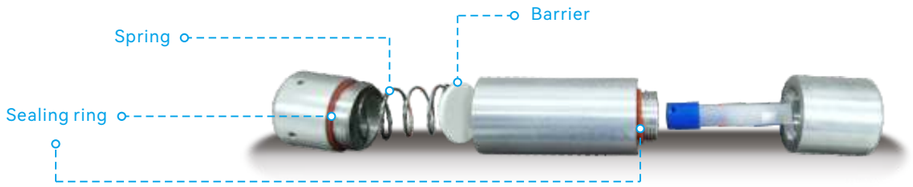
Completely simulate the structure of instrument box to ensure the sterilization results of metal instrument box.

Safe and reliable

Both the compatibility of materials and the sealing are also very good, which ensures the high challenge resistance and stability of PCD.

Structure





For Steam & EO & LTSF



Process Challenge Device for Steam / EO / LTSF Sterilizer

UGPD-03

Advanced Monitoring/ Validation Tools

It is very important to ensure sterilization result for each cycle, as it is effected by many factors:

- Saturation of Steam / EO / LTSF
- Steam / EO / LTSF uniformity
- Temperature of chamber
- Cleaning/dryness of loaded instruments
- Packing method
- Loading method
- Etc.

Advantages

Rapidly and Accurately

After the PCD can be used with our rapid BI, the result can be obtained immediately. The result is accurate and meets international standards.

Very easy to load

It is very convenient to load and take out BI. Routine training is carried out in the reader to increase the turnover rate.

Ensure sterilization results

Completely simulate the structure of helix instrument to ensure the sterilization results of helix instrument.

Safe and reliable

Both the compatibility of materials and the sealing are also very good, which ensures the high challenge resistance and stability of PCD.

Structure

