

Autoclaves

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Vertical-type, Autoclave, Steam Sterilizer 5-6



Programmable Bench-top
"MaXterile™ B21"



Programmable Bench-top
"MaXterile™ SB21"



Programmable Bench-top
"MaXterile™ BT25"



Standard-type
"MaXterile™ 80"



Built in Recorder-type
"MaXterile™ 80R"

DAIHAN-brand® Programmable Bench-top Autoclaves “MaXterile™ B”, Class-B Cycle, Squared Chamber, 21.5 Lit with Pre-vacuum & Post-vacuum Drying, Safety Door Lock Sys., 2×Perforated STS Trays, HEPA Filter, Max 2.40 bar, 121~134°C



Programmable Bench-top Autoclave “MaXterile™ B”

- Made in Korea
 - PL(Product Liability) Insurance
 - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.
 - Ideal for Dental Clinical, Medical, Biotechnology, etc.
 - Pre-vacuum Air Removal & Post Vacuum Drying for Perfect Sterilizing.
 - Safety Door Lock System for User Safety.
 - Class-B Sterilization Cycle by EN13060 Standard :
 - Hollow Load Test in compliance with EN13060 & EN 867-5 Standard.
 - Suitable to SAL=10⁻⁶CFU, EN556-1 Certificate Sterilization Standard.
 - Air Filtration System : HEPA Filter of efficiency up to 99.999% & 0.3 micron size.
 - Special Steam Condensing Mechanism for User Safety
- * Manual Top Water Filling(Built in Water Level Sensor).
 - * Efficient Space Saving Compact Size Body and Squared Inner Chamber.
 - * Programmable Function : Provide 7-Program Sterilizing Operation Cycles (Pre-set 5 Programs & Customizable 2 Programs)
 - * Intuitive User Interface : LCD & Capacitive Touch Button Controller for User Convenience.
 - * High-performance Microprocessor Controller
 - * Class-B Sterilizing Cycle Process by EN13060 Standard :
 - Pre-vacuum → Water Filling → Heating → Sterilizing → Exhaust → Post-vacuum Drying → End of Cycle



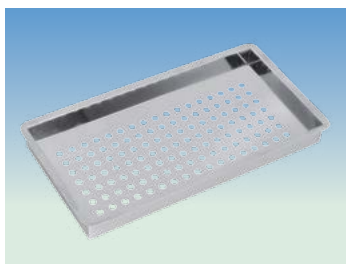
Squared Inner Chamber



Telescopic Sliding Perforated Shelves



(1) Optional Thermal Printer



(2) Spare STS Perforated Trays

Specifications & Ordering information

Spec.	Model	“MaXterile™ B21”
Sterilizing Cycle-type		Class-B Cycle by EN13060 Standard
Capacity		21.5 Lit.
Temp. Range		Room Temp +5°C to 134°C
Pressure & Gauge		Min -1.00bar, Max 2.40 bar, Built-in Digital Pressure Gauge
Timer & Alarm		60 min, Error status & Timer-end
Display		Digital LCD with Back-Light Function
Controller		Digital PID Control System (Fully Automatic), Touch Button UI
Programmable Function		Pre-set 5 Programs & Customizable 2 Programs
Door-type		Manual Double Lever-type Door Lock System
Trays		Two STS Perforated Trays (216×405×h44mm) are Included
Air Filtration System		Built-in HEPA filter, 0.3µm Particle Removal 99.97%
Vacuum Pump		Built-in 11Lit/min Vacuum Pump for Pre-vacuum & Post-vacuum Drying
Air Removal-type		Vacuum & Gravity
Water Filling Tank		4.2Lit., 238×117×h233mm
Safety Circuit		Over-Temp./-Pressure/-Current protection, Sensor Error Detection
Material		Stainless steel -Pressure Vessel, Powder Coated steel-External
Dimension (w×d×h)	Interior	225×425×h225 mm
	Exterior	530×692×h391 mm
Power Consumption		2,300 W
Net Weight		56 kg
Electric Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.WACB0021

* Other Specifications are available upon Customer’s Request.

Optional Thermal Printer

- DH.WACP001 (1) Thermal Printer, Built-in type, 76.5×72mm
- DH.WACR5005 Thermal Paper, 5×Paper Rolls, w58×φ40mm, for Thermal Printer

Spare Stainless-steel Perforated Tray

- DH.WACB1001 (2) STS Perforated Tray, 216×405×h44mm

Validation (IQ, OQ) Service with Bench-top Autoclave

- DH.WACB5021 Validation Service(IQ, OQ), with “MaXterile B21”

DAIHAN-brand® SMART Bench-top Autoclaves “MaXterile™ SB”, Class-B Cycle, Squared Chamber 21.5 Lit with Smart-Lab™ System, Pre-vacuum & Post-vacuum Drying, Safety Door Lock Sys., HEPA Filter, Max 2.40 bar, 121~134 °C



SMART Bench-top Autoclave “MaXterile™ SB”



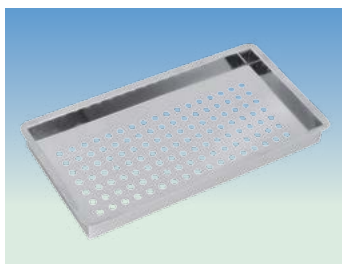
Squared Inner Chamber



Telescopic Sliding Perforated Shelves



(1) Optional Thermal Printer



(2) Spare STS Perforated Trays

- Made in Korea ■ Smart-Lab™ System ■ PL(Product Liability) Insurance.
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.
- Ideal for Dental Clinical, Medical, Biotechnology, etc.
- Pre-vacuum Air Removal & Post Vacuum Drying for Perfect Sterilizing.
- Safety Door Lock System for User Safety.
- Class-B Sterilization Cycle by EN13060 Standard :
Hollow Load Test in compliance with EN13060 & EN 867-5 Standard.
Suitable to SAL=10⁻⁶CFU, EN556-1 Certificate Sterilization Standard.
- Air Filtration System : HEPA Filter of efficiency up to 99.999% & 0.3 micron size.
- Special Steam Condensing Mechanism for User Safety
- Smart-Lab™ Controller : Ergonomic 4" Full Touch Screen TFT LCD(Smart-Lab™ Controller)

- * Manual Top Water Filling(Built in Water Level Sensor). * Optional Built-in Thermal Printer
- * Efficient Space Saving Compact Size Body and Squared Inner Chamber.
- * Includes 2 Perforated Stainless-steel Shelves
- * Programmable Function : Provide 7-Program Sterilizing Operation Cycles (Pre-set 5 Programs & Customizable 2 Programs)
- * High-performance Microprocessor Controller
- * Class-B Sterilizing Cycle Process by EN13060 Standard :
Pre-vacuum→ Water Filling→ Heating→ Sterilizing→ Exhaust→ Post-vacuum Drying→ End of Cycle

Specifications & Ordering information

Spec.	Model	“MaXterile™ SB21”
Sterilizing Cycle-type		Class-B Cycle by EN13060 Standard
Capacity		21.5 Lit.
Temp. Range & Accuracy		Room Temp + 5°C to 134°C
Pressure & Gauge		Min -1.00bar, Max 2.40 bar, Built-in Digital Pressure Gauge
Timer & Alarm		60 min, Error status & Timer-end
Controller & Display		Smart-Lab Controller, 4" Full Touch Screen TFT LCD, WiRe™ App Service
Programmable Function		Pre-set 5 Programs & Customizable 2 Programs
Door-type		Manual Double Lever-type Door Lock System
Trays		Two STS Perforated Trays (216×405×h44mm) are Included
Air Filtration System		Built-in HEPA filter, 0.3µm Particle Removal 99.97%
Vacuum Pump		Built-in 11Lit/min Vacuum Pump for Pre-vacuum & Post-vacuum Drying
Air Removal-type		Vacuum & Gravity
Water Filling Tank		4.2Lit., 238×117×h233mm
Safety Circuit		Over-Temp./-Pressure/-Current protection, Sensor Error Detection
Material		Stainless steel -Pressure Vessel, Powder Coated steel-External
Dimension (w×d×h)	Interior	225×425×h225 mm
	Exterior	530×692×h391 mm
Power Consumption		2,300 W
Net Weight		56 kg
Electric Reqt.s.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.SACB0021

* Other Specifications are available upon Customer's Request.

Optional Thermal Printer

- DH.WACP001 (1) Thermal Printer, Built-in type, 76.5×72mm
- DH.WACR5005 Thermal Paper, 5× Paper Rolls, w58×φ40mm, for Thermal Printer

Spare Stainless-steel Perforated Tray

- DH.WACB1001 (2) STS Perforated Tray, 216×405×h44mm

Validation (IQ, OQ) Service with Bench-top Autoclave

- DH.SACB7021 Validation Service(IQ, OQ), with “MaXterile SB21”

DAIHAN® 25 & 40Lit Programmable Bench-top Steam Sterilizer “MaXterile™ BT”, 110~135 °C, **Class-II Medical Device(NIDS)**
 With Auto-Front Door, Pre- & Post-Vacuum System, Class-B Sterilization, Auto-Microprocessor Control, and Dual Door Lock
 SQUARE Chamber Autoclave, 2 Perforated STS Tray, HEPA Filter, Max 2.30 bar,



**Programmable Bench-top Steam Sterilizer
 “MaXterile™ BT”**

MODE	Temperature (°C)	Pressure (bar)	Sterilizing Time (min)	Drying Time (min)
Unwrapped 1	121	1.1	20	30
Unwrapped 2	134	2.1	5	30
Wrapped 1	121	1.1	30	30
Wrapped 2	134	2.1	15	30
Liquid	121	1.1	20	0
Bowie Dick	134	2.1	4	5
User Program	110 - 135	0.4 - 2.3	4 - 30	0 - 60

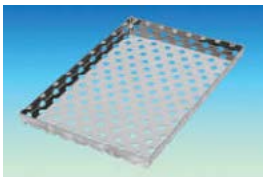
Program Cycle



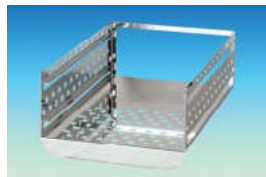
Square Inner Chamber



Sliding Perforated Shelf



(1) STS Perforated Tray



(2) STS Removable Rack



(3) HEPA Filter-kit, 0.3µm



(4) Movable Stand



(5) Thermal Printer

- **Made in Korea** ■ **PL(Product Liability)**
- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.**
- **Class-B Sterilization Cycle by EN13060-2 Standard : Pre Vacuum Air Removal → Water Filling → Heating → Sterilizing → Ventilation → Post Vacuum Drying → End**
- **STS Square Chamber for Corrosion Resistance and Maximum Working Space**
- * Ideal for Dental Clinical, Medical, Biotechnology, etc.
- * Full Automatic Process Cycle by High-performance Microprocessor Controller
- * Built-in Separate Water Reservoir Supplies Water Automatically
- * Self-diagnostic and Safety System :
 - Display Error Codes and Audible Alarm
 - Over Pressure Release Valve
 - Automatic and Manual Door Lock System
 - Over Temp Protector with Thermostat
- * Intuitive User Interface(LCD) & Indicator of Working(LED Lamp)

Specifications & Ordering information

Spec. / Model	“MaXterile™ BT25”	“MaXterile™ BT40”
Capacity	25 Lit	40 Lit
Water Filling Tank	5 Lit (Reservoir)	
Sterilizing Cycle-type	Class-B Cycle by EN13060-2 Standard	
Temp. Range	110 ~ 135 °C	
Pressure & Gauge	0.4 ~ 2.3 bar, Built-in Analog & Digital Pressure Gauge	
Timer & Alarm	60 min, Error Status & Timer-end	
Controller	Microprocessor PID Control System(Fully Automatic) with LCD Monitor	
Programmable Function	Pre-set 6 Programs & Customizable 1 Program	
Door Lock	Automatic Wheel Inter Locking with One Touch Sliding Handle	
Air Filtration System	Built-in HEPA Filter, 0.3µm Particle Removal 99.97%	
Vacuum Pump	Built-in Vacuum Pump(33LPM, 580mmHg) for Pre-vacuum & Post-vacuum Drying	
Air Removal-type	Vacuum	
Tray (Included)	2ea Stainless-steel Perforated Tray	
Safety Circuit	Over-Temp / -Pressure / -Current protection, Sensor Error Detection	
Material	Interior : Stainless-steel 304 Polished, Exterior : Epoxy Powder Coated Steel	
Dimension (w×d×h) & Weight	Interior	270 × 420 × h230 mm
	Exterior	495 × 689 × h460 mm, 60 kg
	Packing	580 × 750 × h580 mm, 75 kg
Power Consumption	2.5 kW	
Electric Reqt.s.	120 V, 60 Hz or 230 V, 50 / 60 Hz, 1 Phase	

Cat. No.	230V	DH.SteB8001	DH.SteB8002

* Other Specifications are available upon Customer's Request.

Spare Accessory

- DH.SteBA1010 (1) STS Perforated Tray , 255×365×h25 mm , for “MaXterile BT25”
- DH.SteBA1015 , 285×405×h30 mm , for “MaXterile BT40”
- DH.SteBA1011 (2) STS Removable Rack, 260×385×h155mm, for “MaXterile BT25”
- DH.SteBA1016 , 290×425×h185mm, for “MaXterile BT40”
- DH.SteA1015 (3) Replacement HEPA Filter-kit, 0.3µm

Optional Accessory

- DH.SteBA1013 STS Wire Tray, 260×370 mm, for “MaXterile BT25”
- DH.SteBA1017 , 273×410 mm, for “MaXterile BT40”
- DH.SteBA1025 (4) Movable Stand with 1 Drawer, 560×700×h800 mm, for “BT25”
- DH.SteBA1026 , 580×700×h850 mm, for “BT40”
- DH.SteA1005 (5) Thermal Printer, Paper Roll, “STEA1005”
- DH.SteA1006 Thermal Paper Package, 4 Paper Roll, for “STEA1005”

Bench-top Autoclave with Validation (IQ, OQ) Service

- DH.SteB5025 Validation Service(IQ, OQ), with “MaXterile BT25”
- DH.SteB5040 , with “MaXterile BT40”

DAIHAN-brand® Digital Fuzzy-control Autoclaves “MaXterile™”, Standard-/Recorder-type, 47-/60-/80-/100-Lit. with Electronic Door Lock Sys, Lever-type Sliding Door, Steam Condensing, Solid-/Liquid-Modes, Max.2 kgf/cm², up to 132 °C
(1) PED Certified-model(φ 3.0mm Thick-Tank), (2) Non-PED-model(φ 2.0mm Thick-Tank)



Standard-type, “MaXterile™ 80”

(1) With PED Certi. 3mm Thick-Tank
(2) Without PED Certi. 2mm Thick-Tank



Built in Recorder-type, “MaXterile™ 80R”

(1) With PED Certi. 3mm Thick-Tank
(2) Without PED Certi. 2mm Thick-Tank

- Made in Korea ■ CE and PED Certified ■ PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Patented Special Steam Condensing Mechanism, Lever-type Sliding Door
- Built in DAIHAN-brand® New Generation Controller : Patented Jog-Dial Control System
- Electronic Door Lock Sensing System for User Safety.
- Door Open Button Automatically Lock Over 80°C for User Safety
- Built in Recorder model (only MaXterile 47R/60R/80R/100R models) : Print Sterilization Cycle Data for Validation and Analyze Sterilization (Temperature, Pressure, Time, Error Status, etc.)

- * Ideal for Biotechnology, Clinical, Environmental, Medical and Food Industry.
- * Innovative Easy-to-Use Digital Fuzzy Controller. * Included 2 × Wire Baskets
- * Casters equipped for Excellent Mobility. * Digital LCD with Back-Light Function.
- * Digital Timer Function - ‘Delay Time’ and ‘Operation Time’ can be Controlled.
- * Solid / Liquid Mode can be chosen by a customer considering a Sample Phase.
- * Water Low Level Detection * Automatic Over Pressure Release Valve ensures User Safety.
- * Sterilization Error Indication : Error Alarm and Massage in case of Power Failure and Temperature Error

Specifications & Ordering information

Standard-type Models	“MaXterile 47”	“MaXterile 60”	“MaXterile 80”	“MaXterile 100”
	Standard-type			
Built in Recorder-type Models	“MaXterile 47R”	“MaXterile 60R”	“MaXterile 80R”	“MaXterile 100R”
	Recorder-type : Built in Recording Printer, Sterilization Cycle Data (Date, Temperature, Pressure, Time, Error Status, etc.)			
Capacity	47 Lit.	60 Lit.	80 Lit.	100 Lit.
Temp. Range & Accuracy	Room Temp +5°C to 132°C, ±0.5°C at 121°C			
Pressure & Gauge	1.2 kgf/cm ² at 121°C / 2.0 kgf/cm ² at 132°C, 0 ~ 3 kgf/cm ²			
Sterilization mode	Solid- or Liquid-mode			
Heating Power/Consumption	2 kW	3 kW	2 kW × 2	2 kW × 2
Timer & Alarm	60 min, Error status & Timer-end			
Display	Digital LCD with Back-Light Function			
Controller	Digital Fuzzy-Control System (Fully Automatic)			
Door & Closing System	Lever-type Sliding Door / Safety Electronic Door Closing System			
Safety Circuit	Over-Temp./-Pressure/-Current protection, Sensor Error Detection			
Printer	Thermal type printer, Record Paper Roll: w58 × φ 40 mm			
Material	Stainless steel (# 304)-Pressure Vessel, Powder Coated steel-External			
Basket	2ea of Stainless steel Wire Baskets are included			
Basket Dimension (mm)	φ 270 × h240	φ 320 × h240	φ 370 × h240	φ 420 × h240
Dimension	Inner (mm)			
(w × d × h)	φ 300 × h670	φ 350 × h650	φ 400 × h650	φ 450 × h630
	Outer (mm)			
	700 × 470 × 1080	700 × 470 × 1080	810 × 580 × 1140	810 × 580 × 1140
Packing Size (mm)	840 × 610 × h1,252 mm		950 × 730 × h1,352 mm	
Gross Weight (kg)	117 kg	120 kg	170 kg	170 kg
Electric Reqts.	1Phase - AC 120V, 60Hz or - AC 230V, 50/60Hz		1 Phase - AC 120V, 60Hz or - AC 230V, 50/60Hz 3 Phase with Terminal Block	

(1) With PED(Pressure Equipment Directive) Certification, φ 3.0mm Thickness Tank

Standard-type Cat. No.	230V	DH.WAC05047P	DH.WAC05060P	DH.WAC05080P	DH.WAC05100P
	3Phase	-	-	DH.WAC07080P	DH.WAC07100P

Built in Recorder-type Cat. No.	230V	DH.WACR2047P	DH.WACR2060P	DH.WACR2080P	DH.WACR2100P
	3Phase	-	-	DH.WACR3080P	DH.WACR3100P

(2) Without PED(Pressure Equipment Directive) Certification, φ 2.0mm Thickness Tank

Standard-type Cat. No.	230V	DH.WAC05047	DH.WAC05060	DH.WAC05080	DH.WAC05100
	3Phase	-	-	DH.WAC07080	DH.WAC07100

Built in Recorder-type Cat. No.	230V	DH.WACR2047	DH.WACR2060	DH.WACR2080	DH.WACR2100
	3Phase	-	-	DH.WACR3080	DH.WACR3100

<Continued On Next Page>

* Other Specifications are available upon Customer's Request.

<Continued From...DAIHAN-brand® Digital Fuzzy-control Autoclaves "MaXterile™" Standard-/Recorder-type>



(3) Wire Basket Stainless-steel (Included)



Side

Bottom

(4) Perforated Bottom Basket, Stainless-steel (Optional)

(3) Spare Wire Baskets, Stainless-steel & Thermal Paper for Recorder

- SL.Bas7011 Wire Basket, $\phi 270 \times h240$ mm, "Bas7011", for 47 Lit, "MaXterile 47", "MaXterile 47R"
- SL.Bas7012 Wire Basket, $\phi 320 \times h240$ mm, "Bas7012", for 60 Lit, "MaXterile 60", "MaXterile 60R"
- SL.Bas7013 Wire Basket, $\phi 370 \times h240$ mm, "Bas7013", for 80 Lit, "MaXterile 80", "MaXterile 80R"
- SL.Bas7014 Wire Basket, $\phi 420 \times h240$ mm, "Bas7014", for 100 Lit, "MaXterile 100", "MaXterile 100R"
- DH.WACR5005 Thermal Paper, 5 \times Paper Roll for "MaXterile R"

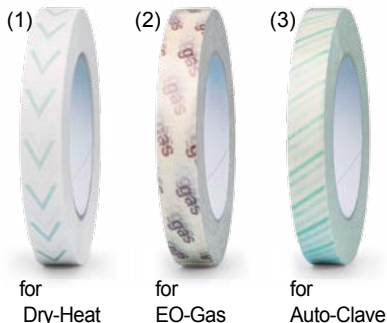
(4) Optional Perforated Bottom Baskets, Stainless-steel

- DH.WAC20047 Perforated Basket, $\phi 270 \times h250$ mm, "WAC20047", for 47 Lit. "MaXterile 47", "MaXterile 47R"
- DH.WAC20060 Perforated Basket, $\phi 320 \times h250$ mm, "WAC20060", for 60 Lit. "MaXterile 60", "MaXterile 60R"
- DH.WAC20080 Perforated Basket, $\phi 370 \times h250$ mm, "WAC20080", for 80 Lit. "MaXterile 80", "MaXterile 80R"
- DH.WAC20100 Perforated Basket, $\phi 420 \times h250$ mm, "WAC20100", for 100 Lit. "MaXterile 100", "MaXterile 100R"

Autoclave with Validation (IQ, OQ) Service

- DH.WAC30047 Validation Service(IQ, OQ), with "MaXterile 47", "ACV47"
- DH.WAC30060 , with "MaXterile 60", "ACV60"
- DH.WAC30080 , with "MaXterile 80", "ACV80"
- DH.WAC30100 , with "MaXterile 100", "ACV100"
- DH.WACR0047 Validation Service(IQ, OQ), with "MaXterile 47R", "ACRV47"
- DH.WACR0060 , with "MaXterile 60R", "ACRV60"
- DH.WACR0080 , with "MaXterile 80R", "ACRV80"
- DH.WACR0100 , with "MaXterile 100R", "ACRV100"

Autoclaves, Accessories



for Dry-Heat

for EO-Gas

for Auto-Clave

Sterilization Indicator Tapes, w19mm \times L50m/Roll for Dry-Heat, EO-Gas, and Steam Sterile/Autoclaving,

* Changing Color after Expose to Sterilization Process(Dry-Heat, EO-gas, Steam Sterile)

- (1) For Dry-Heat Sterile * Supplied by Kartell® in Italy
KA.1051 Dry-Heat Sterile Indicator, w19mm \times L50m-Roll, White \rightarrow Brown
- (2) For EO-Gas Sterile * Supplied by Heinz Herenz® in Germany
HH.1080551 EO-Gas Sterile Indicator, w19mm \times L50m-Roll, Red \rightarrow Green
- (3) For Steam Sterile/Autoclaving * Supplied by Heinz Herenz® in Germany
HH.1080550 Autoclave/Steam Sterile Indicator, w19mm \times L50m-Roll, Green \rightarrow Brown



Dry-Heat Sterilizer Indicator Label on Sheet, 160°C/3h, 180°C/30min, Pink \Rightarrow Brown for Indicating Sterilizer, Color-Changing : from Pink to Brown,

- Supplied by LMS® in Japan
- * Change of Color : Pink \rightarrow Brown
- * Changing Time : 30 minutes at 180°C, 3 Hours at 160°C
- AS2.6419.01 Heat-Sterile Label "D-L", w19 \times L32mm



Anabac® Deodorant "Classic" for Autoclaving, 100 Tablets
Ideal for deodorization, Deodorant Capacity : max 200Lit. per One-tablet,

- Supplied by LMS® in Japan
- * French Bracing Fragrance
- * 100 Tablets / Packed in PP/Paper Container
- * Deodorant Volume : Max 200Lit. per 1-Tablet
- AS2.6361.01 Deodorant for Autoclave, 100 Tablets / a Container

Notes

A series of horizontal dashed lines for taking notes.



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