

2019-2020 Catalogue

version 1.0



Dry Bath Block

Dry Bath Block & Beads

Metallic Thermal Beads Mini Dry Bath Blocks Dry Bath Blocks Ultimate Dry Bath Blocks

For Beads

Major Science offers you the Metallic Thermal Beads as an alternative to the dry bath aluminum blocks. The beads are dry metallic thermal alloy designed to replace water in a water bath and ice in an ice bucket. Compared to a water bath, using the metallic thermal beads could reduce the risk of contamination and allow you to get rid of antibiotics usage. In addition, the beads are also recyclable and energy efficient. The metallic thermal beads also help to reduce maintenance works such as emptying, cleaning, monitoring, and refilling the water bath to give you a more hassle-free environment in the lab. We specifically supply the beads in a standard pack for you.

For Blocks

The Dry Bath Blocks are designed for the MS Thermoblock Dry Bath Incubator. The precisely machined aluminum alloy blocks deliver efficient heat transfer and are suitable for microplate and various sizes of test tubes and centrifuge tubes ranging from 0.2ml to 50ml. In addition to the standard blocks, customized blocks are also available according to user's requirements.



beads

Thermal Beads Specifications

Cat. No.	Beads
Properties	Metal composition
	Moisture and gas impermeable
	High thermal conductivity
	Smooth, rounded surface
Working Temperature Range	-80°C to 180°C
Size	Diameter 5-8mm, Height 1-2mm
Weight	3.6lbs per liter
Environment	Recyclable
	Non-toxic, non-vaporizing material
	No daily requirement for biocide use – no gray water
	Improves energy efficiency of standard water baths by over 50%

Ordering Information

Cat. No.	Product Description
MD-MINI-BD00	Metallic thermal beads for Mini dry bath incubator, for MD-MINI, 170g (Beads only)
MD-BD00	Metallic thermal beads for Genius and Elite dry bath incubator, for MD-01N and EL-01, 700g (Beads only)
MC-BD00	Metallic thermal beads for Ultimate dry bath incubator, for MC-01N, 900g (Beads only)



Product may be used up to 300°C without loss in thermal performance, but product fluidity may be reduced.

Features (for beads)




- Fully compatible with MS Dry Bath Incubators
- Keeps your equipment dry and protected from water-borne microbial contaminants
- 50% more energy efficient than water bath
- High efficiency to warm, thaw, incubate and chill samples at constant temperatures
- Eliminates the hassle of emptying, cleaning and refilling water baths or changing blocks
- Support all shapes of labwares
- Stays clean easily

Features (for blocks)

- Precisely CNC machined aluminum alloy blocks
- R -curve edged block design
- Through Sand Blast Anodizing Surface treatment, it ensure a nice & smooth surface block with a longer durability
- Laser marked on the selected blocks



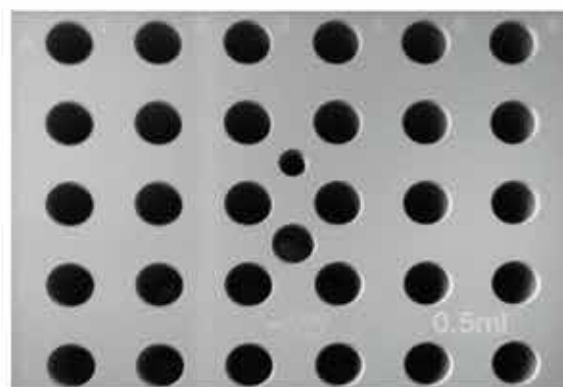
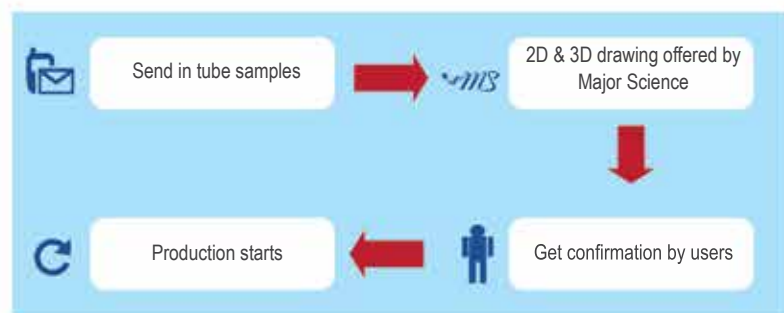
Aluminum alloy blocks Specifications

Cat. No.	Mini Dry Bath Blocks	Dry Bath Blocks	Ultimate Dry Bath Blocks
Photo			
Used For	MD Mini Page 59 , MC-0203 Page 60	EL series Page 64 , MD series Page 62	MC-01 series Page 66
Block Lifter	included		
Product Description	The Mini Dry Bath Blocks are designed for both mini heating or cooling dry bath incubators. The precisely machined aluminum alloy blocks deliver efficient heat transfer and are suitable for PCR tubes in strip and various size of test tubes and centrifuge tubes ranging from 0.2ml to 50ml.	The Dry Bath Blocks are designed for the Elite Dry Bath Incubator and the Genius Dry Bath Incubator. The precisely machined aluminum alloy blocks deliver efficient heat transfer and are suitable for microplate and various size of test tubes and centrifuge tubes ranging from 0.2ml to 50ml.	The Ultimate Dry Bath Blocks are designed for the Ultimate Dry Bath Incubators. The precisely-machined aluminum alloy blocks, which are suitable for microplate and different sizes of test tubes and centrifuge tubes ranging from 0.2ml to 50ml, deliver efficient heating and cooling performance. In addition to the standard blocks, customized blocks are also available for Ultimate plus Dry Bath Incubator to provide more efficient heating and cooling speed. Two standard block modes and customized blocks are available.
Block Material	Aluminum alloy		
Dimension (WxLxH)	Approx. 1.9"x2.8"x1.3" (47x71x32mm) for MD-MINI-B01/02/05/06/07 Approx. 1.9"x2.8"x3" (47x71x75mm) for MD-MINI-B03/04	Approx. 3.4"x5"x2.5" (87x128x62.3mm) for MD-MP01-S Approx. 4.1"x6.2"x2" (104x158x50mm) for MD-MP01-D/ MD-MP02-D Approx. 3.4"x5"x2.7" (87x128x69.5mm) for MD-MP02-S Approx. 3.1"x4.1"x2" (79x104x50mm) for standard blocks	Approx. 3.5"x5.1"x1.8" (89x129x46mm) for standard blocks Approx. 2.5"x3.5"x1.8" (64.5x89x46mm) for MC-B0.2H/0.5H/1.5H Approx. 3.5"x5.1"x1.2" (89x129x30mm) for MC-BS0.2+0.5/0.5+1.5
Weight	Approx. 0.5lb (0.24kg) for MD-MINI-B01/02/05/06/07 Approx. 1.0lb (0.46kg) for MD-MINI-B03/04	N/A	
Block Lifter Well	Yes		
Thermometer Well	Yes	Yes (except microplate blocks)	

*Customized blocks available.

Laser marked on the selected blocks

Flow chart for customization process:



Ordering Information

Cat. No.		Product Description
Mini Dry Bath Blocks	MD-MINI-B01	For 0.2ml tube (PCR strip tube), 32 wells, Ø6.35mm, depth 17mm, (WxLxH) 47x71x32mm
	MD-MINI-B02	For 1.5ml tube, 12 wells, Ø10.88mm, depth 30mm, (WxLxH) 47x71x32mm
	MD-MINI-B03	For 15ml tube, 6 wells, Ø17.3mm, depth 70mm, (WxLxH) 47x71x75mm
	MD-MINI-B04	For 50ml tube, 2 wells, Ø29.0mm, depth 70mm, (WxLxH) 47x71x75mm
	MD-MINI-B05	For 0.5ml tube, 12 wells, Ø7.9mm, depth 25mm, (WxLxH) 47x71x32mm
	MD-MINI-B06	For 2.0ml or 1.5ml tube, 12 wells, Ø11.0mm, depth 30mm, (WxLxH) 47x71x32mm
	MD-MINI-B07	For 2.0ml or 1.5ml tube, 12 wells, Ø11.0mm, depth 30mm, (WxLxH) 47x71x32mm
	MS-BL95-E	Block Lifter, 95mm length with E-type retaining rings
Dry Bath Blocks	MD-MP01-S	For microplate; titerplate (Plain Block for Single Block unit only)
	MD-MP01-D	For microplate; titerplate (Dual Block unit only)
	MD-MP02-S	For 96 wells deep microplate or PCR plate (for Single Block unit only)
	MD-MP02-D	For 96 wells deep microplate or PCR plate (for Dual Block unit only)
	MD-B0.2	For 0.2ml tube, 64 wells (or 0.2ml PCR strip tube for 8 wells x 8)
	MD-B0.5	For 0.5ml tube, 20 wells
	MD-B1.5	For 1.5ml or 2.0ml tube, 20 wells
	MD-B1.5V	For 1.5ml or 2.0ml V-shaped tube, 20 wells
	MD-B0.5+1.5	Combination: for 0.5ml tube, 12 wells; and for 1.5ml tube, 12 wells (on the same side)
	MD-B0.5/1.5	One side for 1.5 or 2.0ml tube, 20 wells and another side for 0.5ml tube, 30 wells (on the opposite side)
	MD-B13	Well size 13mm, 20 wells
	MD-B17	For 15ml centrifuge tube, 12 wells
	MD-B20	Well size 20mm, 12 wells
	MD-B25	Well size 25mm, 6 wells
	MD-B29	For 50ml centrifuge tube, 4 wells
	MD-BD01	Single bead MD dry bath block, (WxLxH) 79x104x76mm
	MD-BD02	Dual bead MD dry bath block, (WxLxH) 104x158x76mm
MS-BL95-E	Block Lifter, 95mm length with E-type retaining rings	
Ultimate Dry Bath Blocks	MC-MP01	For Microplate; titerplate (Plain Block)
	MC-MP02	For 96 wells deep microplate or PCR plate
	MC-B0.5	For 0.5ml, 30 wells
	MC-B1.5	For 1.5 or 2.0ml, 30 wells
	MC-B0.5+1.5	Combination: for 1.5ml or 2.0ml tube, 15 wells and 0.5ml tube, 15 wells (on the same side)
	MC-B0.2+0.5+1.5	Combination: 0.2ml tube (or strip tube for 8 wells), 24 wells; 1.5ml or 2.0ml tube, 10 wells and 0.5ml tube, 10 wells (on the same side)
	MC-B13	Well size 13mm, 30 wells
	MC-B17	For 15ml centrifuge tube, 15 wells
	MC-B20	Well size 20mm, 15 wells
	MC-B25	Well size 25mm, 6 wells
	MC-B29	For 50ml centrifuge tube, 6 wells
	MC-B0.2H	(1/2) half block for 0.2ml tube, 40 wells (or 0.2ml PCR strip tube for 8 wells x 5) One Ultimate Dry Bath Incubator can insert 2ea of half block
	MC-B0.5H	(1/2) half block for 0.5ml tube, 15 wells One Ultimate Dry Bath Incubator can insert 2ea of half block
	MC-B1.5H	(1/2) half block for 1.5 or 2ml tube, 15 wells One Ultimate Dry Bath Incubator can insert 2ea of half block
	MC-BS0.2+0.5	Combination: 0.2ml tube, 36 wells; 0.5ml, 20 wells
	MC-BS0.5+1.5	Combination: 0.5ml tube, 18 wells; 1.5ml, 14 wells
	MC-BD	Ultimate bead bath block, (WxLxH) 90x127x76mm
	MS-BL95-E	Block Lifter, 95mm length with E-type retaining rings

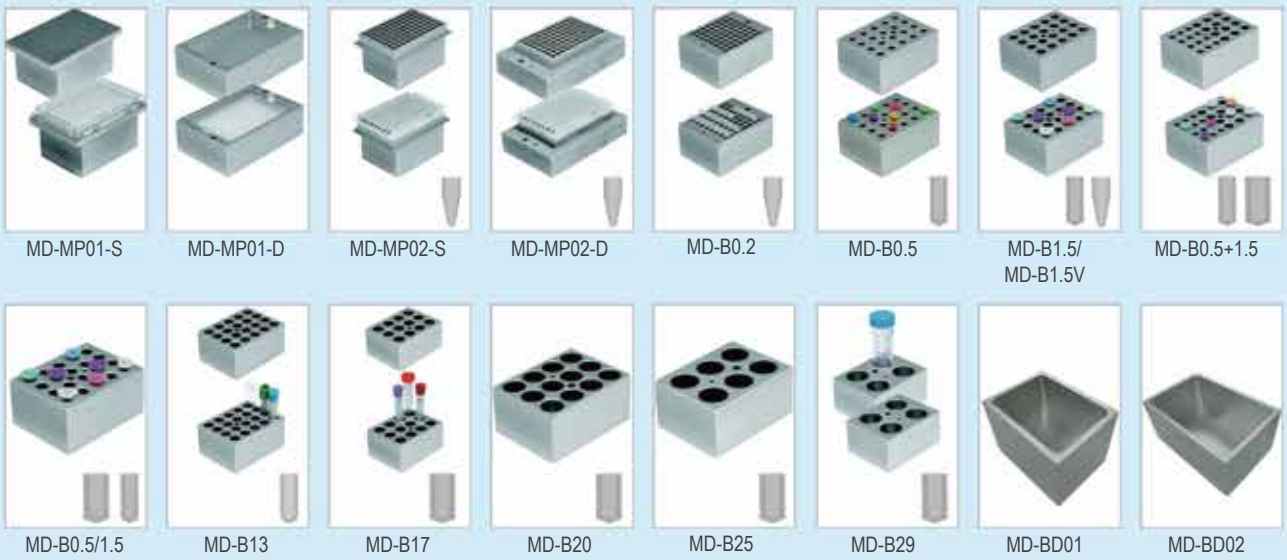
* For the tube bottom type (round, conical or flat), please refer to the pictures on page 71.

MS Thermoblock Dry Bath Incubator

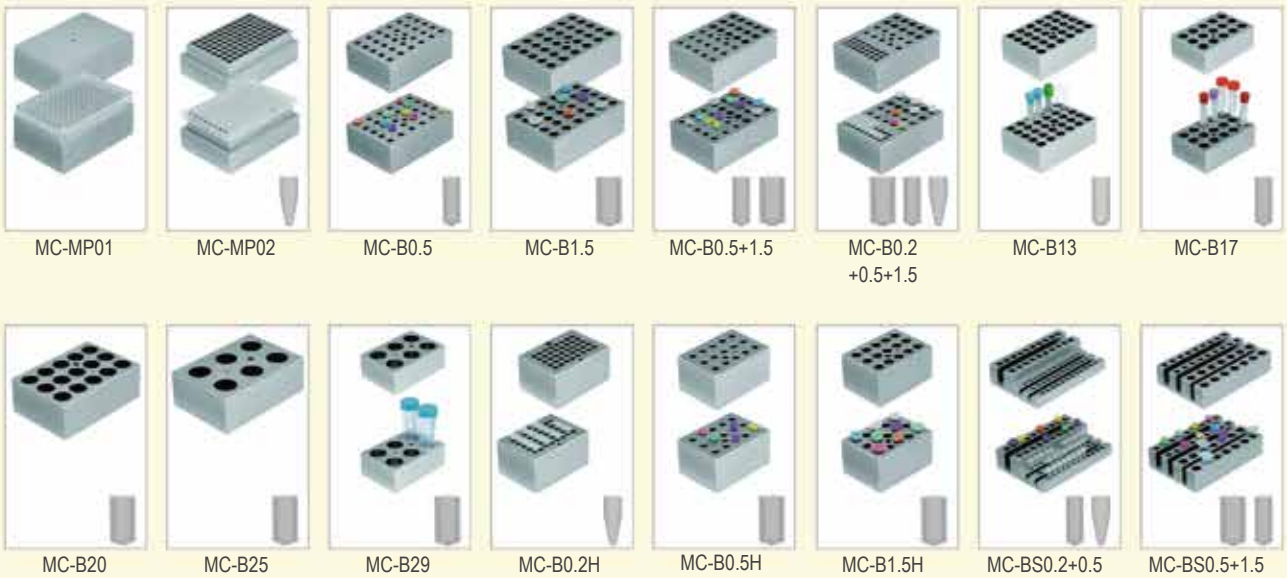
Mini Dry Bath Blocks



Dry Bath Blocks



Ultimate Dry Bath Blocks



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