

## **NEW!** Para-dox® Gen II Aluminum Reaction Blocks for photoredox catalysis and parallel synthesis

Newly designed 48 and 96 position reactors feature an advanced 4-bolt compression sealing system, while 24 position reactors use a 5-bolt system. These new designs provide an easier, more efficient workflow and better performance.

### Benefits of the Gen II line include:

- Less bolts = less time to assemble
- Less light bleed when used with Lumidox® LED arrays (48 and 96 position blocks)
- Less Maintenance
- Vials fit tighter (less shifting)
- Longer lasting screws (larger diameter, larger threads)

### Additional features:

- Port for thermocouple, sensors, etc.
- Corner holes on both the lid and the bottom for accessory attachment
- Larger holes in lid to accommodate a variety of needle sizes
- Uses only one 1/8" rubber mat compared to two 1/16" mats on previous versions (makes for easier assembly)

# Para-dox®

Photoredox Catalysis &  
Parallel Synthesis Reaction Blocks



## Standard 96-Position Aluminum Reaction Blocks, Gen II for 1mL, 8x30mm Glass Inserts

Catalog No.	Description	Qty
<b>Photoredox</b>		
101960	Gen II, 96 Well, 4-BOLT, Photoredox Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
101965	Bottom Rubber Mats for Gen II 96-Well Reactor (101960)	25
<b>Parallel Synthesis</b>		
104960	Gen II, 96 Well, 4-BOLT, Parallel Synthesis Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
104965	Bottom Rubber Mats for 104960, Gen II 96 Well Reactor	25PK
101967	Top Rubber Mats for Gen II 96-Well and 48-Well Reactors	25
101968	Top PFA Films for Gen II 96-Well and 48-Well Reactors	25
SHS0034	Socket Head Screws for Gen II 96-Well and 48-Well Reactors	5



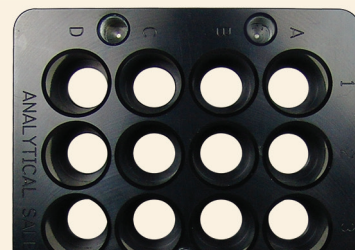
## Parallel Synthesis vs. Photoredox Catalysis Reaction Blocks

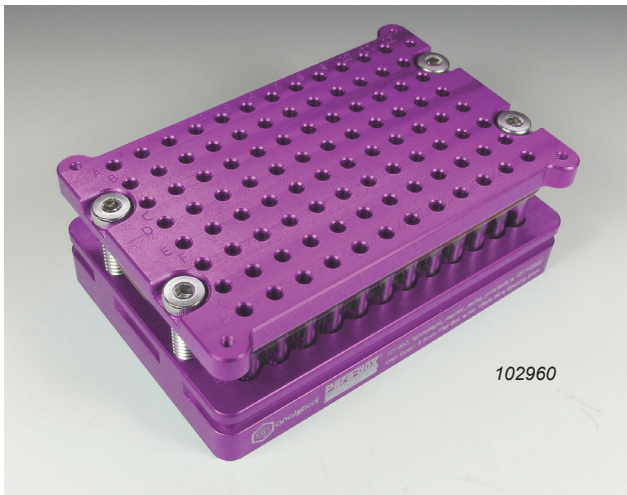
Reactors for both applications are nearly identical. The difference lies in the base (vial rack) of the block. Reactors for parallel synthesis have wells with closed bottoms, whereas photoredox blocks have wells with open holes in the bottom allowing for light transmission via a **Lumidox®II Array**, as well as to read 2D barcodes.

Parallel Synthesis Block, Gen II



Photoredox Catalysis Block, Gen II





## Standard 96-Position Photoredox LIGHTWEIGHT Reaction Block, Gen II for 1mL, 8x30mm Glass Inserts

- 37% lighter than Gen II, 96-well standard 4-bolt reactor
- Great for use on a low-capacity balance with a 500g max limit
- Reduced weight allows for better centrifuge performance
- 9mm Well Spacing

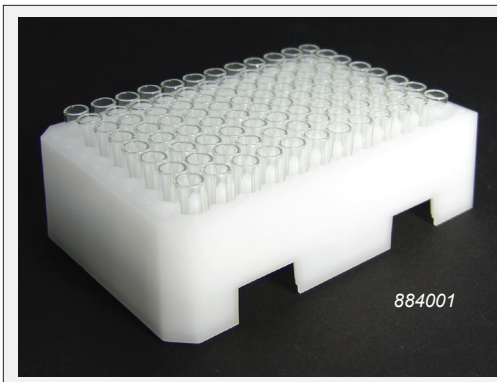
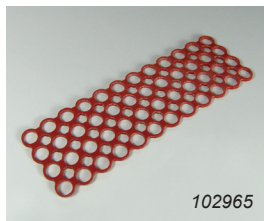
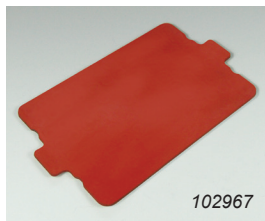
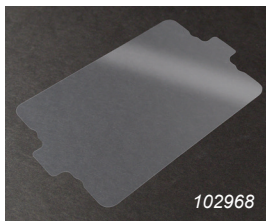
Catalog No.	Description	QTY
102960	Gen II, 4-Bolt, 96-Well LIGHTWEIGHT Photoredox Reaction Block for 1mL, 8x30mm Glass Inserts. Includes Vial Rack, Top Cover, PFA Sheet, Rubber Mats and Screws	Each
102968	Top PFA Films for Gen II LIGHTWEIGHT 96-Well Reactor (102960)	25
102967	Top Rubber Mats for Gen II LIGHTWEIGHT 96-Well Reactor (102960)	25
102965	Bottom Rubber Mat for Gen II LIGHTWEIGHT 96-Well Reactor (102960) - (two required per block)	Each
SHS0114	Socket Head Screws for Gen II 24-Well Reactors and 96-Well Lightweight Reactors	5

### 96-Well Reactor Assembly Weight\*

Gen II, Lightweight (102960): 477.8g  
- Base only, no lid or screws: 267.8g

Gen II, 4-Bolt (101960): 769.0g  
Gen I, Original (96973): 536.0g

\* Weight without vials. Adding vials will add ~ 131g.



### Assembled 96-Well Vial Tray

Cat. No.	Description
884001	Stackable Tray Loaded with 96 8x30 Shell Vials (84001-CASE), Includes Tray and Vials



## Standard 24-Position Aluminum Reaction Blocks, Gen II For 8x30mm, 1mL Glass Inserts

Catalog No.	Description	Qty
<b>Photoredox</b>		
102240	Gen II, 24 Well, 4-BOLT, <b>Photoredox</b> Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
102245	Bottom Rubber Mats for 102240, Gen II 24 Well Reactor (8x30mm vials, 9mm spacing)	25
<b>Parallel Synthesis</b>		
105240	Gen II, 24 Well, 4-BOLT, <b>Parallel Synthesis</b> Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
105245	Bottom Rubber Mats for 105240, Gen II 24 Well Reactor (8x30mm vials, 9mm spacing, Closed)	25
102247	Top Rubber Mats for Gen II 24 Well Reactors (with 9mm Spacing)	25
102248	Top PFA Films for Gen II 24 Well Reactors (with 9mm spacing)	25
SHS0058	10-24, 5/8" Long, SS Socket Head Screw	5



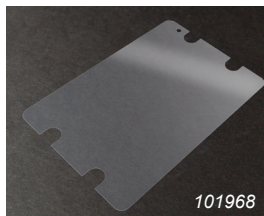




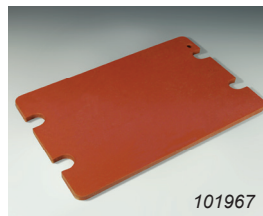
101480 /  
104480

## HPLC 48-Position Aluminum Reaction Blocks, Gen II for 2mL, 12x32mm Vials

Catalog No.	Description	Qty
<b>Photoredox</b>		
101480	Gen II, 48 Well, 4-BOLT, Photoredox Reaction Block for 12mm OD (2mL) Vials, with 13mm Well Spacing	Each
<b>Parallel Synthesis</b>		
104480	Gen II, 48 Well, 4-BOLT, Parallel Synthesis Reaction Block for 12mm OD (2mL) Vials, with 13mm Well Spacing	Each
101967	Top Rubber Mats for Gen II 96-Well and 48-Well Reactors	25
101968	Top PFA Films for Gen II 96-Well and 48-Well Reactors	25
SHS0034	Socket Head Screws for Gen II 96-Well and 48-Well Reactors	5



101968



101967



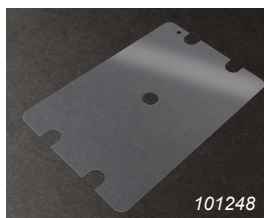
SHS0034



101240 /  
104240

## 1 DRAM, 24-Position Photoredox Reaction Block with 18mm Spacing, Gen II for 4mL (1 Dram), 15x45mm Vials

Catalog No.	Description	Qty
<b>Photoredox</b>		
101240	Gen II, 24 Well, 5-BOLT, Photoredox Reaction Block for 15mm OD (1 Dram) Vials, with 18mm Well Spacing	Each
<b>Parallel Synthesis</b>		
104240	Gen II, 24 Well, 5-BOLT, Parallel Synthesis Reaction Block for 15mm OD (1 Dram) Vials, with 18mm Well Spacing	Each
101247	Top Rubber Mats for Gen II 24-Well Reactors (with 18mm Spacing)	25
101248	Top PFA Films for Gen II 24-Well Reactors (with 18mm Spacing)	25
SHS0114	Socket Head Screws for Gen II 24-Well Reactors and 96-Well Lightweight Reactors	5



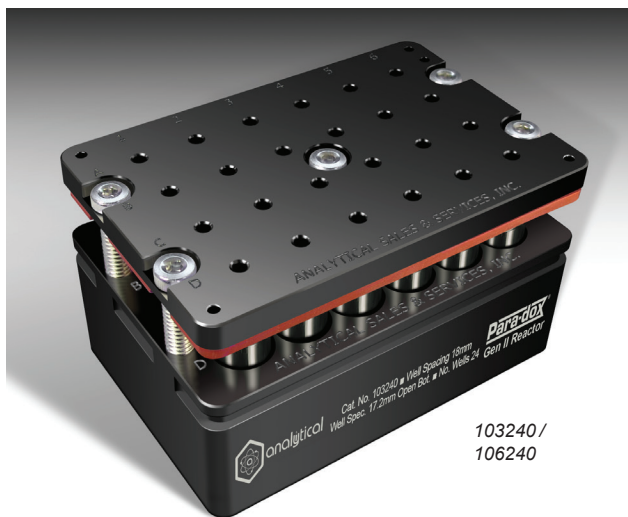
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101247



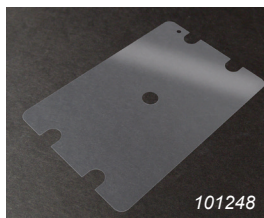
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103240 /  
106240

## 2 DRAM, 24-Position Photoredox Reaction Block, Gen II For 17x60mm, 8mL (2 Dram) Glass Vials

Catalog No.	Description	Qty
<b>Photoredox</b>		
103240	Gen II, 24 Well, 5-BOLT, Photoredox Reaction Block for 17mm OD (2 Dram) Vials, with 18mm Well Spacing	Each
<b>Parallel Synthesis</b>		
106240	Gen II, 24 Well, 5-BOLT, Parallel Synthesis Reaction Block for 17mm OD (2 Dram) Vials, with 18mm Well Spacing	Each
101247	Top Rubber Mats for Gen II 24-Well Reactors (with 18mm Spacing)	25
101248	Top PFA Films for Gen II 24-Well Reactors (with 18mm Spacing)	25
SHS6140	M6x1, 40mm Long, Low-Profile Socket Head Screw	5PK



101248



101247



SHS6140



## Micro 24-Position Aluminum Reaction Block, Gen II

For 4x21mm, 50 $\mu$ L Glass Inserts

Catalog No.	Description	Qty
<b>Photoredox</b>		
107240	Gen II, 24 Well, 4-BOLT, Photoredox Reaction Block for 4x21mm (50 $\mu$ L) Vials, with 9mm Well Spacing	Each
107245	Bottom Rubber Mats for 107240, Gen II 24 Well Reactor (4x21mm vials, 9mm spacing)	25pk
102247	Top Rubber Mats for Gen II 24 Well Reactor (9mm spacing)	25pk
102248	Top PFA Films for Gen II 24 Well Reactor (9mm spacing)	25pk
SHS0058	10-24, 5/8" Long, SS Socket Head Screw	5



102248



102247



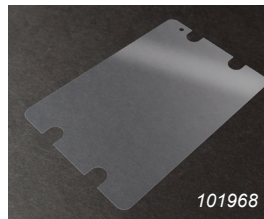
SHS0058



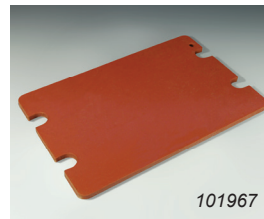
## Micro 96-Position Photoredox Reaction Block, Gen II

For 4x21mm, 50 $\mu$ L Glass Inserts

Catalog No.	Description	Qty
<b>Photoredox</b>		
103960	Gen II, 96 Well, 4-BOLT, Photoredox Reaction Block for 4x21mm (50 $\mu$ L) Vials, with 9mm Well Spacing	Each
103965	Bottom Rubber Mat for 103960, Gen II 96 Well Reactor (4x21mm vials, 9mm spacing)	Each
101967	Top Rubber Mats for Gen II 96-Well and 48-Well Reactors	25
101968	Top PFA Films for Gen II 96-Well and 48-Well Reactors	25
SHS0034	Socket Head Screws for Gen II 96-Well and 48-Well Reactors	5



101968



101967



SHS0034

### Vials (sold separately)

4x21mm (1mL)  
Flat Bottom  
Glass Inserts



Cat. No. Qty  
10421-Case 1000

8x30mm (1mL)  
Clear Glass  
Shell Vials



Cat. No. Qty  
84001-Case 1000

8x30mm (1mL)  
Clear Glass  
Crimp Top Vials



Cat. No. Qty  
84008-Case 1000

12x32mm (2mL)  
Crimp/Snap  
Vials



Cat. No. Qty  
11211-Case 1000

15x45mm (4mL)  
Clear Glass  
Screw Vials



Cat. No. Qty  
31531-Case 1000

17x60mm (8mL)  
Clear Glass  
Screw Vials



Cat. No. Qty  
31760-Case 1000