# Corning<sup>®</sup> CoolBox<sup>™</sup> and CoolRack<sup>®</sup> Modules Consumable Compatibility Guide

A family of solutions that enables consistent, reproducible, and standardized sample handling



# Corning® CoolBox™ System for Consistent and Reproducible Cooling



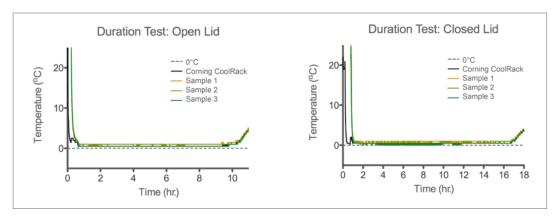
Corning's sample cooling and heating solutions enable consistent, reproducible, standardized temperature control. These solutions address the pitfalls of temperature regulation and reduce contamination risk, keeping your samples cool and stable while you work.

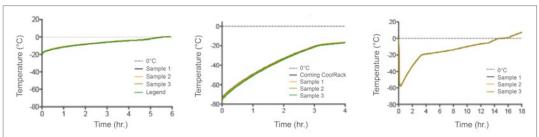
The family of solutions is flexible so you can select the right components for your application and working style. Pair a Corning CoolBox system and Corning CoolRack® thermo-conductive modules together for an ice-free cooling option or place a CoolRack on ice, dry ice, or liquid nitrogen in a Corning ice bucket or pan for a more traditional solution.

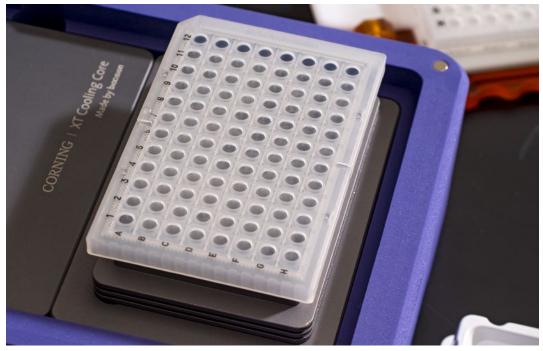
	(Interpretated)		
	Corning CoolRack with a Corning CoolBox XT/2XT	Corning CoolRack with a Corning XT Starter	Corning CoolRack in a Corning Ice Bucket
Description	Ideal and versatile benchtop ice-free cooling system that is designed to be compatible with most Corning CoolRacks. These systems offer the longest cooling times.	An open-platform cooler that accommodates most Corning CoolRack modules, making it a versatile and flexible tool for a variety of applications.	A solution that can be used with ice, dry ice, liquid nitrogen, or heat sources while standardizing temperature consistency.
Benefits	<ul> <li>Ice-free, reduces contamination risk</li> <li>Hours of benchtop cooling at consistent temperatures</li> <li>Includes lid, which allows the temperature to stay consistently cold for a longer period of time</li> </ul>	Use two XT starters side-by-side to accommodate larger size formats	<ul> <li>Improved temperature stability over ice alone</li> <li>No "drowning" samples</li> <li>No direct contact to ice, which reduces contamination risk</li> </ul>
Applications	<ul> <li>Ideal for use under the hood in a where using ice may pose a cont</li> <li>Also ideal for use with temperat ECMs, etc.</li> </ul>	amination risk.	Ideal for benchtop application in a non- aseptic environment that still requires temperature control.
0°C to 4°C cooling with cooling core	10 hours without the lid 16 hours with the lid	4 hours	N/A
20°C freezing with freezing core without the lid	5 hours	5 hours	N/A
20°C freezing with id closed	8 hours with the lid	N/A	N/A

### **Performance Data**

Cooling and freezing duration of Corning® CoolBox™ systems with a Corning CoolRack® sample module insert.







Corning CoolBox system featured with Corning CoolRack thermo-conductive module.

## Corning® CoolRack® Modules for Stable Temperature Control

Corning CoolRack modules are thermo-conductive modules that when placed directly onto a temperature source between -196°C to >100°C, will rapidly equilibrate to that temperature. CoolRack modules ensure ±0.1°C temperature uniformity across all tubes and plates when cooling, snap-freezing, heating, or thawing.

This temperature stability helps reduce the variability originating from tubes, plates, or wells placed directly into ice, dry ice, alcohol baths, water baths, and other cooling sources. Regardless of your desired configuration, you can feel confident that you will keep your sample temperature stable and set your research up for success—right from the start.

Also available from Corning are ThermalTray thermo-conductive platforms, which support Corning CoolRack modules in liquid temperature sources such as melting ice, water baths, and liquid nitrogen. Made of the same highly conductive alloy as Corning CoolRack and Corning CoolSink® modules, ThermalTray platforms conduct the source temperature to the CoolRack or CoolSink modules and, ultimately, to your samples.



Visit www.corning.com/lifesciences for more information on Corning CoolRack and Corning CoolSink modules versatility and performance.

### **Increased Temperature Consistency**

## Non-uniform Plate Cooling with Crushed Ice

Final equilibrium well temperature for a 96-well flat bottom microplate in direct contact with crushed ice. Colors represent 0.5°C temperature intervals of the corresponding plate wells from 4.5°C to 7.4°C.

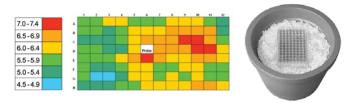


Plate directly on crushed ice, the plate does not reach 4°C in any of the wells and well-to-well temperature is uneven.

## Uniform Plate Cooling with Corning® CoolSink™ XT 96F Module

Corning CoolSink XT 96F module on ice. Colors represent 0.5°C temperature intervals of the corresponding plate wells ranging from 2.5°C to 4.4°C. The white cell represents the well that was fitted with the thermocouple probe.

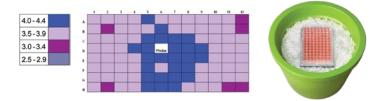


Plate placed on Corning CoolSink module and then placed on ice shows more uniform well-to-well temperature and all wells at or below 4°C. (Blue center plate wells are slightly warmer due to curvature of the underside of the plate).

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# Build an Ideal Cooling Solution for Your Consumable and Sample Type

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Corning® CoolBox™ module features a modular design that allows you to build a custom solution specific for your consumable and sample needs.

### Build your cooling solution – it's as easy as 1-2-3.

- 1 First select your consumable type.
  - Microcentrifuge Tubes
  - PCR Tubes, Strips, and Microplates
  - Centrifuge Tubes
  - Multiwell Microplates or Reservoirs
  - 2 mL Cryogenic Vials
  - 5 mL Cryogenic Vials

- 2 Select a Corning CoolRack® module based on your consumable and sample quantity.
- 3 Match with the appropriate ice-free Corning CoolBox system or ice bucket/pan solution.



## Axygen Microcentrifuge Tubes

#### 1. Choose a consumable:

Cat. No.	Description
MCT-150-C	1.5 mL microcentrifuge tubes
MCT-150-C-S	1.5 mL microcentrifuge tubes, sterile
MCT-150-L-C	1.5 mL microcentrifuge tubes, Axygen Maxymum Recovery® surface
MCT-200-C	2 mL microcentrifuge tubes
MCT-200-C-S	2 mL microcentrifuge tubes, sterile
MCT-200-L-C	2 mL microcentrifuge tubes, Axygen Maxymum Recovery surface

Microcentrifuge tubes listed are Corning-suggested compatible consumables. The Corning CoolRack module is also compatible with most major microcentrifuge tube brands. Visit **www.corning.com/lifesciences** to get complete product information.



### 2. Choose a Corning CoolRack module:

Corning CoolRack Compatible Axygen Cat. No. Microcentrifuge Tube		No. of Wells	SBS Compatible
Round Well			
432034	1.5 and 2 mL	6	No
432035	1.5 and 2 mL	6	No
432036	1.5 and 2 mL	6	No
432037	1.5 and 2 mL	15	No
432038	1.5 and 2 mL	15	No
432039	1.5 and 2 mL	15	No
432040	1.5 and 2 mL	24	Yes
432041	1.5 and 2 mL	30	No
432042	1.5 and 2 mL	30	No
432043	1.5 and 2 mL	30	No
432044	1.5 and 2 mL	90	No
V-Well			
432045	1.5 and 2 mL	96	No
432046	0.5 mL	30	No
432047	1.5 mL	15	No
432048	1.5 mL	30	No

## 3. Choose a Corning<sup>®</sup> CoolBox<sup>™</sup> Ice-free Solution or a Corning Ice Bucket

	Ice-free C	orning CoolBox				Corni	ng Ice Buckets ar	d Pans		
		Inim or	Secretary .					4		
	XT Starter	CoolBox XT	CoolBox 2XT	9L Ice pan	9L Ice pan with lid and handles	4L Ice pan	4L Ice pan with lid and handles	1L Ice Pan	4L Round bucket with lid	2.5L Round bucket with lid
Corning CoolRack Cat. No.	Number of that o	Corning CoolRa	ck® modules odated		Number of C	orning CoolF	Rack modules tha	t can be acco	ommodated	
432034	4	4	8	25	25	11	11	2	4	5
432035	4	4	8	25	25	11	11	2	4	5
432036	4	4	8	25	25	11	11	2	4	5
432037	1	1	4	9	9	3	3	1	2	2
432038	1	1	4	9	9	3	3	1	2	2
432039	1	1	4	9	9	3	3	1	2	2
432040	1	1	2	5	5	2	2	_	1	1
432041	1	_	1	4	4	2	2	_	1	1
432042	1	_	1	4	4	2	2	_	1	1
432043	1	_	1	4	4	2	2	_	1	1
432044	-	-	_	1	1	1	1	_	_	_
432045	-	-	_	1	1	1	1	_	_	_
432046	1	-	1	4	4	2	2	_	1	1
432047	1	1	4	9	9	3	3	1	2	2
432048	1	_	1	4	4	2	2	-	1	1



Corning ice buckets and pans



## PCR Tubes, Strips, and Microplates

## 1. Choose a consumable:

Description
Axygen® 0.2 mL thin-wall PCR tubes with flat cap, clear
Axygen 0.2 mL thin-wall PCR 8 tubes/strip, 8 domed caps/strip, clear
Axygen 0.2 mL thin-wall PCR 8 tubes/strip, clear
Axygen 0.2 mL thin-wall PCR 8 tubes/strip with attached 8 flat caps/strip, clear
Axygen 0.2 mL thin-wall PCR 8 tubes/strip with attached 8 domed caps/strip, clear
Axygen 96-well ultra-thin wall PCR microplate, half skirt, clear
Axygen 384-well ultra-thin wall PCR microplate, full skirt, clear, compatible with ABI
Axygen 384-well ultra-thin wall PCR microplate, full skirt, clear

Products listed are Corning-suggested compatible consumables. The Corning® CoolRack® module is also compatible with most major centrifuge tube and PCR microplate brands. Visit www.corning.com/lifesciences to get complete product information.



## 2. Choose a Corning CoolRack module:

Corning CoolRack Cat. No.	Compatible PCR Consumable	SBS Compatible
432054	1.5 or 2.0 mL microcentrifuge tubes or PCR 6-strip tubes	Yes
432053	96-well PCR microplate, PCR 12-strip tubes, or microcentrifuge tubes	Yes
432055	384-well PCR microplate	Yes

## 3. Choose a Corning CoolBox™ Ice-free Solution or a Corning Ice Bucket

	Ice-free Corning CoolBox					Cornir	g Ice Buckets and	l Pans		
		lacion	( Control of the Cont							
	XT Starter	CoolBox XT	CoolBox 2XT	9L Ice pan	9L Ice pan with lid and handles	4L Ice pan	4L Ice pan with lid and handles	1L Ice Pan	4L Round bucket with lid	2.5L Round bucket with lid
Corning CoolRack Cat. No.	Numb that	er of Corning Co	oolRacks odated		Number	r of Corning (	CoolRacks that ca	n be accomm	odated	
432053	1	1	2	5	5	2	2	-	1	1
432054	1	1	2	5	5	2	2	_	1	1
432055	1	1	2	5	5	2	2	-	1	1



## Centrifuge Tubes

#### 1. Choose a consumable:

Description
Axygen® MaxyClear Snaplock microcentrifuge tube
Corning® centrifuge tube with Corning CentriStar™ cap
Corning centrifuge tube with plug seal cap
Falcon® high clarity conical centrifuge tube with dome seal cap
Corning conical centrifuge tubes with Corning CentriStar cap
Corning conical centrifuge tube with plug seal cap
Falcon high clarity conical centrifuge tube with dome seal cap
Corning centrifuge tube

Products listed are Corning-suggested compatible consumables. The Corning CoolRack® module is also compatible with most centrifuge tube brands. Visit www.corning.com/lifesciences to get complete product information.



## 2. Choose a Corning CoolRack module:

Corning CoolRack Cat. No.	Compatible Centrifuge Tube	SBS Compatible
432060	5 mL centrifuge tube	Yes
432061	15 mL centrifuge tube	No
432068	15 mL centrifuge tube	No
432062	50 mL centrifuge tube	No
432063	250 mL centrifuge tube	No
432064	250 mL Easy Grip storage bottle	No

## 3. Choose a Corning CoolBox™ Ice-free Solution or a Corning Ice Bucket

Ice-free Corning CoolBox					Corning Ice	Buckets and Pans			
		Tax in the	Personal						
	XT Starter	CoolBox XT	CoolBox 2XT	9L Ice pan	9L Ice pan with lid and handles	4L Ice pan	4L Ice pan with lid and handles	4L Round bucket with lid	2.5L Round bucket with lid
Corning CoolRack Cat. No.		er of Corning Coc can be accommo			Number of Co	orning CoolRa	cks that can be acc	ommodated	
432060	1	1	2	5	5	2	2	1	1
432061	1	1	2	6	6	2	2	1	1
432068	1	1	2	5	5	2	2	1	1
432062	1	1	2	6	6	2	2	1	1
432063	1	1	2	6	6	2	2	1	1
432064	1	1	2	6	6	2	2	1	1



## Multiwell Microplates or Reservoirs

#### 1. Choose a consumable:

Cat. No.	Description
U-bottom mic	croplates
3367	Corning® 96-well clear, not treated microplate, without lid
3360	Corning 96-well clear, TC-treated microplate, without lid, sterile
3789A	Corning 96-well white, not treated microplate, without lid
3792	Corning 96-well black, not treated microplate, without lid
Flat-bottom p	plates
3596	Corning 96-well clear, TC-treated microplate, with lid
3516	Costar® 6-well clear, TC-treated multiwell plate, with lid
3512	Costar 12-well clear, TC-treated multiwell plate, with lid
3524	Costar 24-well clear, TC-treated multiwell plate, with lid
353224	Falcon® 6-well clear, TC-treated multiwell plate, with lid
353225	Falcon 12-well clear, TC-treated multiwell plate, with lid
353226	Falcon 24-well clear, TC-treated multiwell plate, with lid
353075	Falcon 96-well clear, TC-treated microplate, with lid
Reagent Rese	rvoirs
RES-V-50	Axygen® 50 mL disposable reagent reservoir
RES-V-50-S	Axygen 50 mL disposable reagent reservoir, sterile
RES-V-50-SI	Axygen 50 mL disposable reagent reservoir, individually wrapped, sterile

Products listed are Corning-suggested compatible consumables. The Corning CoolRack® or CoolSink® modules are also compatible with most multiwell plate brands. Visit www.corning.com/lifesciences to get complete product information.



## 2. Choose a Corning CoolRack or CoolSink module:

Corning CoolRack/ CoolSink Cat. No.	Compatible Microplate or Reservoir Consumable	SBS Compatible
432139	Axygen 50 mL disposable reagent reservoir	No
432070	Flat bottom microplate	Yes
432071	96-well U-bottom microplate	Yes
432072	55 mL reagent reservoir	No

## 3. Choose a Corning CoolBox™ Ice-free Solution or a Corning Ice Bucket

Ice-free Corning CoolBox				Corning Ice Buckets and Pans					
		Incom	Manufactured .						
Corning	XT Starter	CoolBox XT	CoolBox 2XT	9L Ice pan	9L Ice pan with lid and handles	4L Ice pan	4L Ice pan with lid and handles	4L Round bucket with lid	2.5L Round bucket with lid
CoolRack/ CoolSink Cat.		ber of Corning Co			Number of C	orning CoolSin	ks that can be acco	mmodated	
432139	_	_	1	6	6	1	1	1	1
432070	1	1	2	5	5	2	2	1	1
432071	1	1	2	5	5	2	2	1	1
432072	_	_	1	6	6	1	1	1	1



## 2 mL Cryogenic Vials

#### 1. Choose a consumable:

Cat. No.	Description
<b>External Thre</b>	ad, Self-standing, Round-bottom
430659	2 mL cryogenic vial
8671	2 mL cryogenic vial, 1D and 2D bar coded
8676	2 mL cryogenic vial, 1D bar coded
Internal Threa	ad, Self-standing, Round-bottom
430488	2 mL cryogenic vial
8670	2 mL cryogenic vial, 1D and 2D bar coded
8672	2 mL cryogenic vial, 1D bar coded

Products listed are Corning-suggested compatible consumables. The Corning CoolRack® module is also compatible with most cryogenic vial brands. Visit **www.corning.com/lifesciences** to get complete product information.



## 2. Choose a Corning CoolRack module:

Corning CoolRack Cat. No.	No. of Wells	SBS Compatible
432049	15	No
432050	24	Yes
432051	45	No
432052	30	No
432056	96 (no Corning consumables to go with 0.5 mL 2D tubes)	No
432057	96 (no Corning consumbales to go with 1.4 mL 2D tubes)	No

## 3. Choose a Corning CoolBox™ Ice-free Solution or a Corning Ice Bucket

Ice-free Corning CoolBox			Corning Ice Buckets and Pans							
		lace o	Straining .							
Corning	XT Starter	CoolBox XT	CoolBox 2XT	9L Ice pan	9L Ice pan with lid and handles	4L Ice pan	4L Ice pan with lid and handles	1L Ice Pan	4L Round bucket with lid	2.5L Round bucket with lid
CoolRack Cat. No.	ck Number of Corning CoolRacks			Number of Corning CoolRacks that can be accommodated						
432049	1	1	4	9	9	3	3	1	2	2
432050	1	1	2	5	5	2	2	-	1	1
432051	_	_	1	3	3	1	1	_	1	1
432052	1	_	1	4	4	2	2	_	1	1
432056	1	1	2	5	5	2	2	_	1	1
432057	1	1	2	5	5	2	2	_	1	1



## 5 mL Cryogenic Vials

#### 1. Choose a consumable:

Cat. No.	Description	
430663	5 mL cryogenic vial, round bottom, external thread, self-standing	
430674	5 mL cryogenic vial, round bottom, external thread, self-standing, uncapped, unprinted, bulk	
430656	5 mL cryogenic vial, round bottom, internal thread, self-standing	

Products listed are Corning-suggested compatible consumables. The Corning® CoolRack® module is also compatible with most cryogenic vial brands. Visit **www.corning.com/lifesciences** to get complete product information.



## 2. Choose a Corning CoolRack module:

Corning CoolRack Cat. No.	No. of Wells	SBS Compatible
432067	9	No

## 3. Choose a Corning CoolBox™ Ice-free Solution or a Corning Ice Bucket

Ice-free Corning CoolBox			Corning Ice Buckets and Pans						
		Inches	demanted						
Corning	XT Starter	CoolBox XT	CoolBox 2XT	9L Ice pan	9L Ice pan with lid and handles	4L Ice pan	4L Ice pan with lid and handles	4L Round bucket with lid	2.5L Round bucket with lid
CoolRack Cat. No.	ack Number of Corning CoolRacks			Number of Co	orning CoolRa	cks that can be acc	commodated		
432067	1 1 2 Requires XT or 2XT extension collar		6	6	2	2	1	1	

## Ordering Information

Products may not be available in all markets.

## **Corning Ice Buckets and Pans**

Description	Dimensions (L x W x H)	Purple	Lime Green	Orange	Pink	Blue	Green	Red
Mini 1L ice pan	15.9 x 15.9 x 9.5 cm	432121	432119	432118	432120	432116	432115	432117
Midi 4L ice pan	31.1 x 22.2 x 11.4 cm	432109	432107	432106	432108	432104	432103	432105
Midi 4L ice pan with lid	35.0 x 22.5 x 11.4 cm	432114	432112	432111	432113	432110	_	_
Maxi 9L ice pan	40.6 x 31.8 x 11.4 cm	432099	432097	432096	432098	432094	432093	432095
Maxi 9L ice pan with lid	44.5 x 32.5 x 11.4 cm	432102	432101	_	_	432100	_	_
Round 2.5L ice bucket with lid	Top diameter: 24.1 cm Height: 12.1 cm	432135	432133	432132	432134	432129	432130	432131
Round 4L ice bucket with lid	Top diameter: 26.0 cm Height: 18.4 cm	432128	432126	432125	432127	432123	432122	432124

## Corning® CoolBox™ XT Modules

Cat. No.	Description	Contains	Qty/Cs
432021	CoolBox XT, purple	Holder and one Cooling Core	1
432022	CoolBox XT, green	Holder and one Cooling Core	1
432023	CoolBox XT, orange	Holder and one Cooling Core	1
432024	CoolBox XT, pink	Holder and one Cooling Core	1
432025	CoolBox 2XT, purple	Holder and two Cooling Cores	1
432026	CoolBox 2XT, green	Holder and two Cooling Cores	1
432027	CoolBox 2XT, orange	Holder and two Cooling Cores	1
432028	CoolBox 2XT, pink	Holder and two Cooling Cores	1

## **Corning CoolBox Accessories**

Cat. No.	Description	CoolBox XT Starter 432014	CoolBox XT 432021	CoolBox 2XT 432025
432081	XT Cooling core	1	1	2
432082	XT Freezing core	1	1	2
432083	Extension collar for CoolBox XT, purple	_	1	_
432084	Extension collar for CoolBox XT, green	_	1	_
432085	Extension collar for CoolBox XT, orange	_	1	_
432086	Extension collar for CoolBox XT, pink	_	1	_
432087	Extension collar for CoolBox 2XT, purple	_	_	1
432088	Extension collar for CoolBox 2XT, green	_	_	1
432089	Extension collar for CoolBox 2XT, orange	_	_	1
432090	Extension collar for CoolBox 2XT, pink	_	_	1

## Corning CoolRack® and CoolSink® Plate and Reservoir Modules

Cat. No.	Description	CoolBox XT Starter 432014	CoolBox XT 432021	CoolBox 2XT 432025
432139	CoolRack LX50	_	_	1
432070	CoolSink XT 96F	1	1	2
432071	CoolSink XT 96U	1	1	2
432072	CoolSink LX55	_	_	1

## Ordering Information (Continued)

## Corning® CoolRack® M – Microcentrifuge Tube Modules

Cat. No.	Description	ThermalTray SLP 432073	ThermalTray LP 432074	ThermalTray HP 432075
432034	CoolRack M6, gray	12	12	12
432035	CoolRack M6, green	12	12	12
432036	CoolRack M6, orange	12	12	12
432037	CoolRack M15, gray	4	4	4
432038	CoolRack M15, green	4	4	4
432039	CoolRack M15, orange	4	4	4
432040	CoolRack XT M24	3	3	3
432041	CoolRack M30, gray	2	2	2
432042	CoolRack M30, green	2	2	2
432043	CoolRack M30, orange	2	2	2
432044	CoolRack M90	1	1	1
432045	CoolRack M96 ID	1	1	1

## Corning CoolRack M-PF – Conical Microcentrifuge Tube Modules with Profile-fit Wells

Cat. No.	Description	ThermalTray SLP 432073	ThermalTray LP 432074	ThermalTray HP 432075
432046	CoolRack 500 μL M30-PF	2	2	2
432047	CoolRack M15-PF	4	4	4
432048	CoolRack M30-PF	2	2	2

## Corning CoolRack CF – Cryogenic Vial and FACS Tube Modules

Cat. No.	Description	ThermalTray SLP 432073	ThermalTray LP 432074	ThermalTray HP 432075
432049	CoolRack CF15	4	4	4
432050	CoolRack XT CFT24	3	3	3
432051	CoolRack CF45	1	1	1
432052	CoolRack CFT30	2	2	2

## Corning CoolRack PCR – PCR Tube and Plate Modules

Cat. No.	Description	ThermalTray SLP 432073	ThermalTray LP 432074	ThermalTray HP 432075
432053	CoolRack XT PCR96	3	3	3
432054	CoolRack XT M-PCR	3	3	3
432055	CoolRack XT PCR384	3	3	3

## **Corning CoolRack – Tall Tube Modules**

Cat. No.	Description	ThermalTray SLP 432073	ThermalTray LP 432074	ThermalTray HP 432075
432060	CoolRack XT 5mL	3	3	3
432061	CoolRack 15 mL	3	3	3
432062	CoolRack 50 mL	3	3	3
432063	CoolRack 250 mL-PF	3	3	3
432064	CoolRack 250 mL-B	3	3	3
432068	CoolRack L	3	3	3

## Corning CoolRack and CoolSink® Plate and Reservoir Modules

Cat. No.	Description	ThermalTray SLP 432073	ThermalTray LP 432074	ThermalTray HP 432075
432139	CoolRack LX50	4	4	4
432070	CoolSink XT 96F	3	3	3
432071	CoolSink XT 96U	3	3	3
432072	CoolSink LX55	4	4	4

Warranty/Disclaimer: Unless otherwise specified, all products are for research use or general laboratory use only.\* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. \*For a listing of US medical devices, regulatory classifications or specific information on claims, visit www.corning.com/resources.

Corning's products are not specifically designed and tested for diagnostic testing. Many Corning products, though not specific for diagnostic testing, can be used in the workflow and preparation of the test at the customers discretion. Customers may use these products to support their claims. We cannot make any claims or statements that our products are approved for diagnostic testing either directly or indirectly. The customer is responsible for any testing, validation, and/or regulatory submissions that may be required to support the safety and efficacy of their intended application.

## **CORNING**

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