

RADPlus™ Shelf



Designed to be compatible with the RS 1800•Q & 1800•Q4 Biological Irradiators, specifically configured for cell irradiation applications

Ensures Optimal Dosing

Proprietary RADPlus material aids in uniform dosing and allows for higher dose rates. This technology ensures optimal and consistent dosing of the cells being irradiated compared to dosing in the absence of the RADPlus tool.

Functions as a placeholder for lab components such as well plates and petri dishes that can be placed directly on the shelf.

Provides Dose Rate Flexibility

Components can be placed at the center of the shelf, which can be placed on all shelf levels. The well plate holder can be placed directly on the shelf as well.

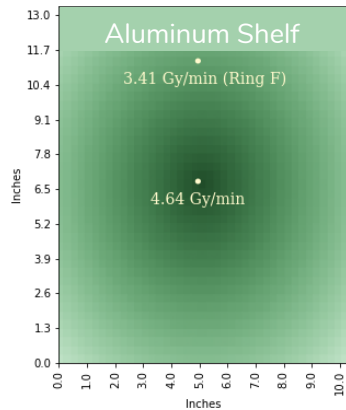
Components need to be placed within the ring that corresponds to the shelf number in order to receive optimal dosing.

Markings on the 4 corners, outside of the F ring should be used to align the well plate holder.

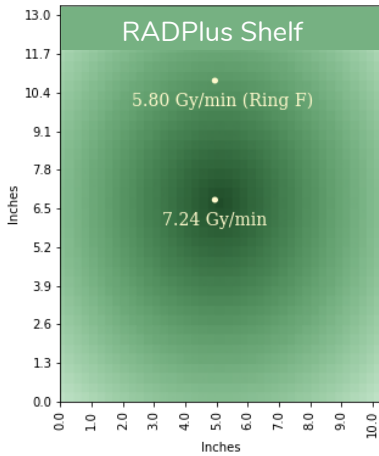
Note: lower shelf levels correspond to larger rings leaving space for more components; the higher the shelf, the higher the dose rate.

RADPlus™ Superior Dose Uniformity For Higher Dose Rates Demonstrated on Heat Maps

Uniform dosing is important to ensure that the cells receive consistent dosing across the RADPlus tool.

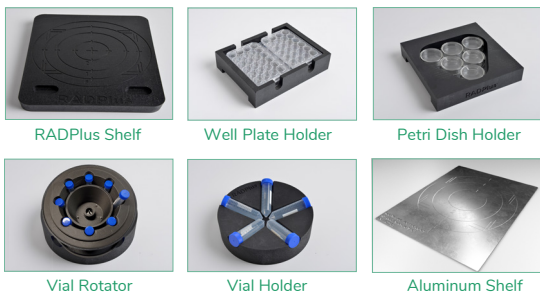


The heat map above shows lower dose rates at 75% flatness. Dark green areas signify higher dose rates whereas light green areas signify lower dose rates.



The heat map above shows higher dose rates at 75% flatness. The thickness of the RADPlus Shelf brings the target closer in proximity to the source than the Aluminum Shelf.

Visit our website using the QR code below for more info on our other RADPlus Research Solutions.



Technical Specifications

2 kW Irradiator	Dose Rate	Flatness
Shelf 2	55 Gy/min	75%
Shelf 1	15 Gy/min	75%
Floor	7 Gy/min	75%

4 kW Irradiator	Dose Rate	Flatness
Shelf 2	110 Gy/min	75%
Shelf 1	30 Gy/min	75%
Floor	14 Gy/min	75%

Dimensions	10.75" x 13.40" x 1.50"
Weight	12.8 lbs

Note: Dose rate specified above is the center dose rate across the RADPlus material.

$$Flatness = 100 \times \frac{D_{min}}{D_{max}}$$

ORDERING INFORMATION

• RADPlus Shelf

RS# 1404471

Heat map measurements were taken for the 2kW irradiator. Dose rates specified in the heat maps would be doubled for the 4kW irradiator.



Rad Source is a global leader in developing x-ray solutions for life science. Our mission is to develop innovative x-ray technologies that enable our customers to improve the world through life science research and life saving innovation. Whether our customers are doing cell or cancer research, solving life's most challenging issues or preventing the spread of infectious diseases, we are here to support them. Our global network of employees and partners deliver an unrivaled combination of the world's most innovative x-ray based life science solutions and a highly trained and responsive global service and support footprint. RADPlus research tools are for use with Rad Source equipment ONLY.

For more info, visit www.radsources.com or call 678-765-7900



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