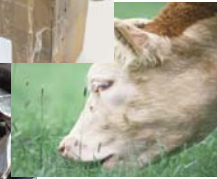


## **Gamma Laboratory Kit** RadEye Mobile Kit for Food Monitoring



Immediate attention to the monitoring of food in an affected area can be a primary concern and an urgent mission for radiation emergency response teams. The combination of the high performance RadEye PRD-S and the mobile Gamma Laboratory Kit allow for immediate, on-site results.

The mobile Thermo Scientific Gamma Laboratory Kit enables local response teams to respond to potential emerging food monitoring requirements in known contamination and radiological incident scenarios. The gamma detector RadEye PRD-S allows for highly sensitive gamma measurements due to its NaI(Tl) detector and an adjustable measurement time. The Gamma Laboratory Kit provides shielding from environmental radiation while supporting the placement of a 180 ml sample volume close to the RadEye's detector.

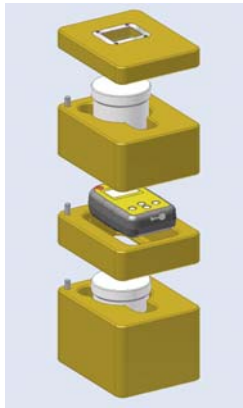
Measurement results are provided as gross gamma rates in counts per second (cps). Conversion factors translating the 'cps' results into Bq/l are also provided as a reference to further quantify the possible dominant nuclides emitted in a radiological accident. Using this method for example, will allow the end user to determine the contamination levels of Iodine in milk very accurately and down to the locally recommended threshold levels.



### **FEATURES**

- Battery operated, 500 hrs operation time
- Simple to use
- Low investment requirements
- RadEye PRD-S also to be used as a sensitive handheld gamma detector
- Data logger for 1000 sample measurements
- PC interface via Infrared or optional Bluetooth
- Step by step application manuals included
- Mobile, robust system in a transport case

The sample holder of the Gamma Laboratory Kit contains 4 shielding modules (4 Pi) accommodating 2 sample jars and the RadEye PRD-S between. Each jar can be filled with 90 ml sample material. The performance of the measurement system can be routinely controlled and maintained with the optional Thermo Scientific 9g Lutetium Test-Adapter\* and the special Lu-Test routine program that is part of the RadEye PRD-S firmware.



3D Assembly Graphic



\* Lu Test-Adapter positioning aid

**RadEye PRD-S (Scaler Mode) used with Sample Holder Assembly**

**Measurement Conditions**

Measured Background	3.00 cps (Background measurement time = 1800 sec)
Nuclide	I-131 (100%)
Sample	Milk

**Sensitivity**

Limit of Detectoin	140 Bq/l (Measurement time 300 s)
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**Carring Case**

Dimensions (approx.)	H 310 mm, W 360 mm, D 200 mm
Total weight (approx.)	20 kg

