

Dodavatel

M.G.P. spol. s r.o.
 Kvítková 1575
 76001 ZLÍN
 Česká republika
 IČO: 42340586 DIČ: CZ42340586



Číslo nabídky: **200200065**
 Datum nabídky: 15.5.2020
 Platnost nabídky: 30.6.2020
 Termín dodání: cca 4-6 týdnů

Telefon: [REDACTED]
 Zelená linka [REDACTED]

E-mail: [REDACTED]
 Web: www.mgp.cz

Místo určení

979

Nemocnice Kyjov

ONM
 Strážovská 1247/22
 697 01 KYJOV

Odběratel

235

Nemocnice Kyjov,
 příspěvková organizace
 Strážovská 1247/22
 697 01 KYJOV
 IČO: 00226912 DIČ: CZ00226912

Kontakt: [REDACTED]

Název Katalogové číslo	MJ	Množství	JC bez DPH CZK	DPH %	CC bez DPH CZK
3 Etalon 3709.AD.010M.N-PbShipper 370 MBq Rectangular, Active: 610 x 419 mm, Outer: 638 x 454 mm	1 piece	1	84 400,00	21	84 400,00
00043 Zajištění likvidace - původní zdroj 57-Co		1	2 500,00	21	2 500,00

Celkem bez DPH 86 900,00 CZK
 Celkem DPH 18 249,00 CZK
Celkem s daní 105 149,00 CZK

COBALT-57 FLOOD SOURCE

For Quality Control of Nuclear Imaging Cameras

Summary and Explanations

The Co-57 Flood Source consists of Cobalt-57 incorporated into a solid matrix to result in a uniform activity distribution. When placed on the collimator head of a Nuclear Imaging Scintillation Camera it produces a uniform "flood" field image that is used to assure correct operation of the camera.

The radionuclide chosen, Cobalt-57, emits photons of energies similar to that of Technetium-99m.

Technetium-99m Major photon energy	Cobalt-57 Major photon energies
140 keV	122, 136 keV

Recommended Handling Procedures

Please refer to your institution's Radioactive Materials License or Radiation Safety Manual for procedures for receipt and handling of radioactive material. You must comply with any special procedures required by your Radioactive Materials License or your institution's Standard Operating Procedures.

The procedures below are intended as guidelines and not meant to supersede your license or internal procedures.

1. The Co-57 Flood Source is shipped in an outer box made of corrugated material. The complete package conforms to USA-D.O.T. Type A specifications. This box can be used to return a spent flood source for recycling.
2. Within the outer shipping box the Co-57 Flood Source is shipped either in a shielded storage case or between two sections of lead sheets attached to cardboard. If shipping material or a case is to be disposed, remove the lead material and dispose of it using proper guidelines as set by your institution or local government. An old case or lead sheets can be used to ship the source back to the manufacturer for recycling.
3. When the Co-57 Flood Source shipping box is received and opened, all shipping material should be monitored for radioactivity after unpacking to assure that the Co-57 Flood Source has not been damaged in transit. Visually inspect all materials and the Co-57 Flood Source for damage. Contact your Radiation Safety Officer if any damage is found.
4. The leak test certificate from the manufacturer is packed

with the flood source; this certificate is valid for six (6) months. The U.S. Nuclear Regulatory Commission's limit for shipping a product is 5 nCi or less of removable activity. After six months from receipt, the Co-57 Flood Source must be wipe tested again. Consult your institution's Standard Operating Procedures or Radiation Safety Manual on how to perform the wipe test.

Directions for Intended Use

Please refer to the operations manual of your Nuclear Imaging Camera for specific instructions. The following instructions are meant as a guideline only.

The only intended use of the Co-57 Flood Source is for quality control of a Nuclear Imaging Scintillation Camera. The flood source provides a uniform gamma radiation field which enables a quality control flood field study to be performed. A quality control flood field study determines the inherent detection uniformity of the camera and enables scanning defects related to uniformity to be diagnosed before a patient scan or study is performed.

1. To use the Co-57 Flood Source, remove it from the storage case and place it so that the source is centered onto the face of the collimator head. For dual-head cameras, move both collimator heads to a horizontal position and place the source on top of the bottom collimator head.
2. Select the appropriate energy setting. Note: The energy setting on the camera should be chosen for the simulated nuclide and not the imaging nuclide. Refer to the energy chart above.
3. Accumulate sufficient counts for the quality control scan. Review the scan. If artifact(s) are detected, rotate the Co-57 Flood Source 180 degrees in the horizontal plane from the original position and rescan to determine whether the artifacts are source, collimator, or camera related. If areas of non uniformity are observed, call your Nuclear Imaging Camera's service department for a review of the results. Do not scan patients until all discrepancies are resolved.