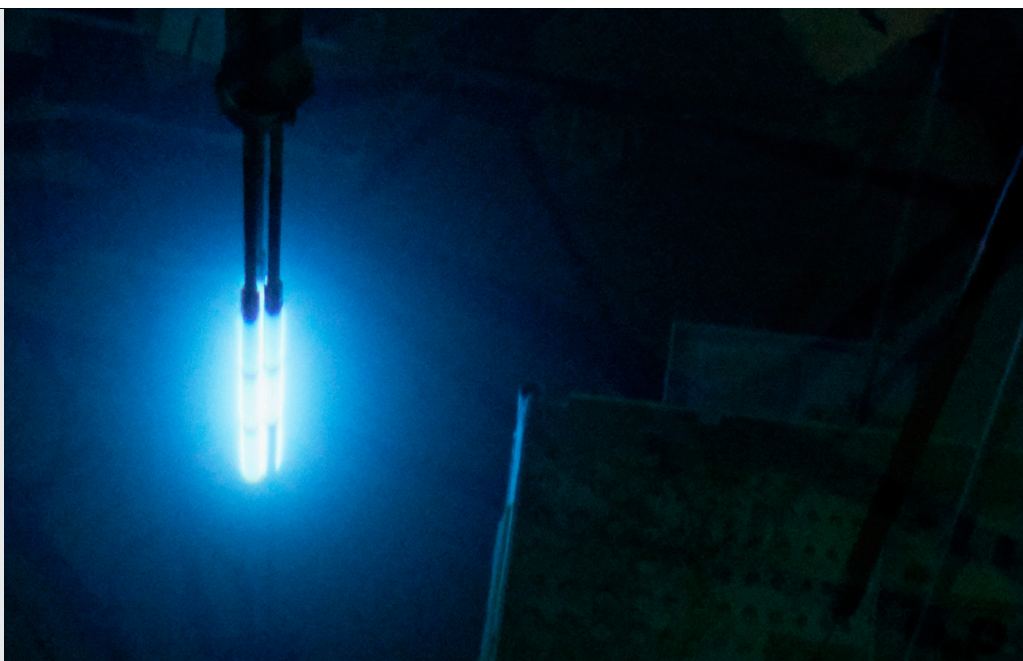




IRRADIATION SOLUTIONS

OVERVIEW OF MEDICAL ISOTOPES



MEDICAL ISOTOPES

NRG PRODUCES MEDICAL ISOTOPES FOR ABOUT 10 MILLION PATIENT TREATMENTS PER YEAR IN MORE THAN 90 COUNTRIES

NRG is Europe's largest producer of medical isotopes and one of the largest in the world. Our isotopes help millions of patients worldwide with respect to both diagnostic and therapeutic applications of nuclear medicine.

NRG provides medical isotopes to radiopharmaceutical companies and research centres worldwide. With over 50 years of experience, we offer customer specific pre and post care elements throughout the entire medical isotope supply chain, as well as standard irradiation services. Depending on the specific needs of our customer, this includes the purchasing of raw materials, development and manufacture of product capsules for irradiation, production facilities and worldwide logistics. We are continuously improving our production methods for medical isotopes and developing new products and production methods in direct cooperation with our customers and partners.

Our goal is to provide high quality products and services on time that consistently satisfy our customers and earn us the reputation of being a trustworthy partner.

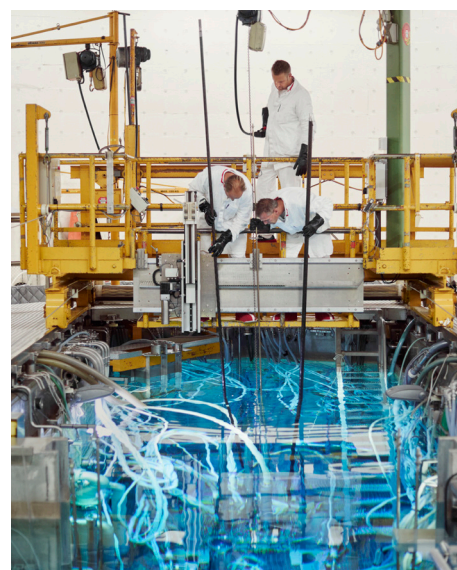
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SELECTION OF MEDICAL ISOTOPES PRODUCED BY NRG

NEXT PAGE



MEDICAL ISOTOPES

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DIAGNOSTIC MEDICAL ISOTOPES	
Isotope	Medical application
Chromium-51	Used to label red blood cells and quantify gastro-intestinal protein loss.
Iodine-131	Adrenal imaging.
Molybdenum-99	Mo-99 is the parent for Tc-99m generator used for a broad range of imaging in serious medical conditions: all areas of oncology, cardiology, kidney function, brain function, brain disorders, lung function, infection detection, thyroid function, bone disorders.
Xenon-133	Imaging for lung function.
THERAPEUTIC MEDICAL ISOTOPES	
Isotope	Medical application
Cobalt-60	High dose rate brachytherapy.
Copper-64	Used to study genetic diseases affecting copper metabolism, such as Wilson's and Menke's diseases.
Erbium-169	Arthritic conditions.
Gold-198	Head and neck cancer, tongue and mouth cancer (low dose rate brachytherapy).
Holmium-166	Liver cancer. Used in clinical trials in Europe for new blood cancer treatment.
Iodine-125	Prostate cancer.
Iodine-131	Thyroid, lung, brain and liver cancer, non-Hodgkin.
Iridium-192	Various cancer therapies, e.g. cervical cancer, lung cancer (high dose rate brachytherapy) and head and neck cancer.
Lutetium-177	Cancer therapy of solid tumors, ovarian and neuroendocrine cancer.
Phosphorus-32	Treatment of excess red blood cells.
Rhenium-186	Metastatic bone pain relief and arthritic conditions.
Samarium-153	Metastatic bone pain relief (palliative care) and in development for treatment of bone cancers.
Strontium-89	Metastatic bone pain relief.
Yttrium-90	Liver cancer, arthritic conditions and metastatic bone pain relief.