

MEDI-RADIOPHARMA Your Global Nuclear Medicine Supplier

CATALOGUE OF IN VIVO KITS FOR Tc-99m LABELLING



MEDI-RADIOPHARMA LTD. | www.mediradiopharma.com

INTRODUCTION

MEDI-RADIOPHARMA Ltd. is a privately-owned company established in 1995. The company has more than 25 years of experience in developing, manufacturing and supplying radiopharmaceutical products to customers around the globe.

MEDI-RADIOPHARMA Ltd. specialises in the production and supply of generic in-vivo kits for Tc-99m labelling used in nuclear medicine. By potentially enabling accurate early diagnosis and treatment of cancer, as well as heart, brain and bone diseases, our world-class products empower our customers with effective treatment, and proven patient outcomes.

MEDI-RADIOPHARMA Ltd. holds a diverse portfolio of proven products registered in 67 countries world-wide. We pride ourselves on our ability to deliver a steady supply of quality diagnostic and therapy solutions, with the highest standards of quality and safety assured at every stage.

We develop, manufacture and distribute radiopharmaceutical products that meet industry standards in quality, safety, efficacy and innovation. The company holds valid Manufacturer's Authorization, Certificate of GMP Compliance of a Manufacturer, Wholesale Distribution Authorization, Certificate of GDP Compliance of a Wholesaler Distributor, Good Laboratory Practice (GLP) Certificate, ISO certificate and relevant authorization for the manufacture and wholesale distribution of radiopharmaceuticals. MEDI-RADIOPHARMA Ltd., together with its partner company, Radiopharmacy Laboratory Ltd., is also involved in the development of therapeutic radiopharmaceuticals. The company is open for requests and suggestions on new research and development projects in the field of nuclear medicine. Our sterile injectables capabilities include formulation and process development and manufacturing of sterile injectable drug products at scales suitable for small clinical trials to global commercial supply. We will bring speed, flexibility, experience and a broad set of capabilities to your program.

At MEDI-RADIOPHARMA Ltd., we are committed to improving the lives of all those we serve. To us, this means striving to make a positive difference to our employees, partners, patients, and the local communities in which we operate.

The headquarter and the main manufacturing facilities of the company are located in Érd, south-west to Budapest. Additional laboratories are in Budaörs and Bátonyterenye.







Gergely Jánoki MSc. RPh. CEO, Medi-Radiopharma

"At Medi-Radiopharma our purpose is to serve healthcare and improve patient outcomes through a wide portfolio of high-quality products. Our ambitious and passionate team makes me so inspired and proud every day – same goes for my father who established the foundations of our company and allowed us to become a key global player in our field."





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Nano-Scan (99mTc-HSA nanosized colloid) Tc-MR-7

		10 Distances and a second seco
Active substance	Human Serum Albumin nano size	ed colloid 500 micrograms
Particle size	At least 95 % of human albumin colloidal particles have a diameter ≤ 80 nm.	
Indications		eas other than the abdomen graphy to demonstrate integrity ad differentiation of venous from
Excipients	 Stannous(II) chloride dihydrat Glucose monohydrate Sodium dihydrogen phosphat di-Sodium hydrogen phospha Nitrogen Hydrochloric acid Sodium hydroxide 	e dihydrate,
Dose for adults	 Intravenous application: Bone marrow scanning: 185 Inflammation scanning: 370 Subcutaneous administration: Lymphoscintigraphy: 18.5-110 Sentinel node detection: Malignant melanoma: total Breast cancer: total activity 	D-500 MBq (i.v. injection) D MBq per injection site activity applied 40-100 MBq
Labelling activity	185 MBq - 5.5 GBq	
Labelling volume	1-5 ml	
Storage of cold kit	18 months from date of manufacturing, Do not store above 25°C	
Storage of labelled compound	8 hrs, Do not store above 25°C	
Package size	6 vials	
Registration numbers	Germany: 81340.00.00 Denmark: DK R 02248 Austria: 4-00046 Italy: 414/2012 Spain: 76905	Belgium: BE471911 The Netherlands: RVG 112760 Poland: 22470 Romania: 9353/2016/01-04 United Kingdom: PL 40129/0002
Marketing Authorization Holder	Radiopharmacy Laboratory Ltd. 2040 Budaörs, Gyár u. 2., Hunga	

Senti-Scint (^{99m}Tc-HSA colloid) Tc-MR-4

Active substance	Human Serum Albumin nano sized colloid (strength 1.0 mg)
Particle size	100-600 nm
Indications	Compound is suitable for • sentinel node lymphoscintigraphy in • breast cancer and • melanoma malignum
Excipients	 Stannous(II) chloride dihydrate Glucose Sodium phosphate monobasic & Sodium phosphate dibasic
Dose for adults	The recommended activity 60-100 MBq. 3-5 subcutaneous injections around the lesion. 20-20 MBq in volumes of 0.2-0.5 ml.
Labelling activity	maximum 5.5 GBq
Labelling volume	1-5 ml
Storage of cold kit	18 months from date of manufacturing, Do not store above 25°C Protect from light
Storage of labelled compound	maximum 6 hrs, Do not store above 25°C
Package size	6 vials
Registration numbers	Hungary: OGYI-T-8665/01 Czech Republic: 88/100/01-C Slovak Republic: 88/0045/04-S Belarus: 9915/12/17 Croatia: UP/I-530-09/11-01/19 Turkey: 136/12
Marketing Authorization Holder	Medi-Radiopharma Co., Ltd. 2030 Érd, Szamos u. 10-12., Hungary

SENTI-SCINT 1.0. Kit for preparation of millimicroan Blance Bi-Vital p.

Nano-Albumon (^{99m}Tc-HSA nanosized colloid) Tc-MR-3

Active substance	Human Serum Albumin nano sized colloid 1.0 mg
Particle size	More than 80% of the particles have a size maximum 100 nm
Indications	The labelled Nano-Albumon is suitable forconventional lymphoscintigraphybone marrow scanning
Excipients	 Stannous(II) chloride dihydrate Glucose Sodium phosphate monobasic & Sodium phosphate dibasic
Dose for adults	Suggested dose ranges are different according to the type of investigation
Labelling activity	maximum 2.2 GBq
Labelling volume	1-3 ml
Storage of cold kit	18 months from date of manufacturing, Do not store above 25°C Protect from light
Storage of labelled compound	6 hrs, Do not store above 25°C
Package size	6 vials
Registration numbers	Hungary: OGYI-T-8664/01 Czech Republic: 88/174/91-C Colombia: INVIMA 2018M-0018034
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary

Medi-MIBI 500 micrograms (99mTc-MIBI) Tc-MR-1

Active substance

Indications

Sestamibi [tetrakis (1 isocyanide-2-methoxy-2-methylpropyl-) copper(I)] tetrafluoroborate 0.5 mg

The Tc-99m labelled compound can be used for

- Myocardial perfusion scintigraphy for the detection and localisation of coronary artery disease (angina pectoris and myocardial infarction)
- Assessment of global ventricular function. First-pass technique for determination
 of ejection fraction and/or ECG-triggered, gated SPECT for evaluation of left ventricular
 ejection fraction, volumes and regional wall motion.
- Scintimammography for the detection of suspected breast cancer when mammography is equivocal, inadequate or indeterminate.
- Localisation of hyperfunctioning parathyroid tissue in patients with recurrent or persistent disease in both primary and secondary hyperparathyroidism, and in patients with primary hyperparathyroidism scheduled to undergo initial surgery of the parathyroid glands.

Excipients	 Stannous(II) chloride dihydrate Sodium chloride Tetrasodium pyrophosphate decahydrate L-cysteine hydrochloride monohydrate Glycine 		
Dose for adults	 Diagnosis of reduced coronary perfusion and myocardial infarction: 400 - 900 MBq Diagnosis of ischaemic heart disease: Two-day protocol: 600-900 MBq/study One-day protocol: 400-500 MBq Assessment of global ventricular function: 600-800 MBq injected as a bolus Scintimammography: 700 - 1000 MBq injected as a bolus Localisation of hyperfunctioning parathyroid tissue: 200 - 700 MBq injected as a bolus 		
Labelling activity	Up to 15 GBq		
Labelling volume	1-5 ml		
Storage of cold kit	30 months from date of manufacturing, Do not store above 25°C Protect from light		
Storage of labelled compound	8 hrs, Do not store above 25°C		
Package size	6 vials		
Registration numbers	Denmark: DK.R.2236 Austria: 4-00035 Spain: 70755 Italy: 040312011	Croatia: HR-H-769142649 Republic of Belarus: 10057/12/18 Hong-Kong: HK-64680 Taiwan: R00098	
Marketing Authorization Holder	Radiopharmacy Laboratory Ltd. 2040 Budaörs, Gyár u. 2., Hungary		

Medi-Exametazime (99mTc-HM-PAO) Tc-MR-14

Active substance

Exametazime 0.5 mg

Indications

Neurology:

- Evaluation of patients with cerebrovascular disease (specifically acute stroke, chronic ischemia, and transient ischemic attack)
- Presurgical lateralization and localization of epileptogenic foci.
- Evaluation of patients with suspected dementia (specifically Alzheimer's disease and frontotemporal dementia)
- Evaluation of patients with migraine
- Adjuvant technique in the diagnosis of brain death

Infectious or inflammatory diseases

- Localisation of abnormal foci guiding the aetiologic diagnosis in case of fever of unknown origin
- Diagnosis of infection in case of suspected osteomyelitis (with or without implants) and suspected hip or knee prosthesis infection.
- Detection of the extension of inflammation in case of inflammatory bowel disease.

Excipients	Stannous(II) chloride dihydrate Tetrasodium pyrophosphate decahydrate	
Dose for adults	Brain perfusion SPECT: 350-500 MBq Labelled leucocyte scintigraphy: 200 MBq	
Labelling activity	0.37-2.2 GBq	
Labelling volume	5 ml	
Storage of cold kit	12 months from date of manufacturing, Store at 2-8°C	
Storage of labelled compound	1 hr, Do not store above 25°C Protect from light	
Package size	6 vials	
Registration numbers	Denmark: DK R 49482 Germany: 86253.00.00 Austria: 4-00051 United Kingdom: PL40129/0001M	Turkey: 135/53 Spain: 77468 Italy: AIC n 042496024 Hong-Kong: HK-64514
Marketing Authorization Holder	Radiopharmacy Laboratory Ltd. 2040 Budaörs, Gyár u. 2., Hungary	



Brain-Spect (99mTc-HM-PAO) Tc-MR-5

Active substance	Exametazime 0.3 mg
Indications	 Diagnostic study of Regional cerebral blood flow (stroke, carotid artery occlusion, transient ischaemic attack, migraine, tumours of the brain, dementia differential diagnosis, BRAIN-SPECT kit can be applied for detection, localisation of cortical areas with decreased perfusion, and to estimate the extent of the damage. Detection of affected cortical areas over 1-2 cm is feasible by planar gamma camera, the smaller areas can be detected by SPECT.
Excipients	Stannous(II) chloride dihydrate Tetrasodium pyrophosphate decahydrate
Dose for adults	370-740 MBq (i.v. injection)
Labelling activity	370-2200 MBq
Labelling volume	5 ml
Storage of cold kit	12 months from date of manufacturing, Store in a refrigerator (2-8°C) Protect from light
Storage of labelled compound	1 hr, Do not store above 25°C Protect from light
Package size	6 vials
Registration numbers	Hungary: OGYI-T-8733/01 Czech Republic: 88/418/92-C Belarus: 9904/12/17 Turkey: 135/53 Colombia: INVIMA 2015M-0015824
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary

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Stabilised Brain-Spect (Technetium [^{99m}Tc] exametazim HMPAO) Tc-MR-15

Active substance	Exametazime 0.5 mg
Indications	 Brain scintigraphy: Regional cerebral blood flow scintigraphy (Stroke, reduced cerebral blood flow, ischemic attack, epilepsy, migraine, trauma, tumours of the brain, differential diagnosis of dementia). The stabilised Brain-Spect 0.5 mg kit is able to recognise, localize the altered cerebral cortical tissue perfusion and to estimate the size of the damaged area.
Excipients	Lyophilizate: Stannous(II) chloride dihydrate Sodium-pyrophosphate-decahydrate
	Cobalt(II)-chloride solution: Cobalt(II)-chloride-hexahydrate Water for injection
Dose for adults	350-500 MBq intravenously
Labelling activity	0.37-2.2 GBq
Labelling volume	5 ml
Storage of cold kit	12 months from date of manufacturing, Store in refrigerator (2°C - 8°C)
Storage of labelled compound	Stabilised labelled product 6 hrs, Do not store above 25°C
Package size	6 injection vial containing powder and 6 injection vial containing solution in a carton box
Registration numbers	Hungary: OGYI-T-8733/02
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary

Leuco-Scint (^{99m}Tc-HM-PAO unit dose) for leucocytes labelling **Tc-MR-6**

Active substance	Exametazime 0.18 mg
Indications	 For in vitro labelling of leucocytes. Detection of inflammatory processes (based on white blood cell migration) in case of bacterial infection abscess inflammatory lesions of the intestine, bones or joints
Excipients	Stannous(II) chloride dihydrate Tetrasodium pyrophosphate decahydrate
Additional reagents/dose	ACD-A anticoagulant buffer 10 ml 6% Hydroxyethyl starch (Plasmasterile) 15 ml
Dose for adults	200-250 MBq
Labelling activity	950-1000 MBq
Labelling volume	1.5 ml
Storage of cold kit	12 months from date of manufacturing Store in a refrigerator (2-8°C) Protect from light The labelled leucocytes must be re-injected in 30 minutes of reconstitution
Storage of labelled compound	0.5 hr, Do not store above 25°C Protect from light
Package size	Vials for 3 labellings
Registration numbers	Hungary: OGYI-T-8734/01 Czech Republic: 88/1121/94-C Colombia: INVIMA 2015M-0002589-R1
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 10-12., Hungary

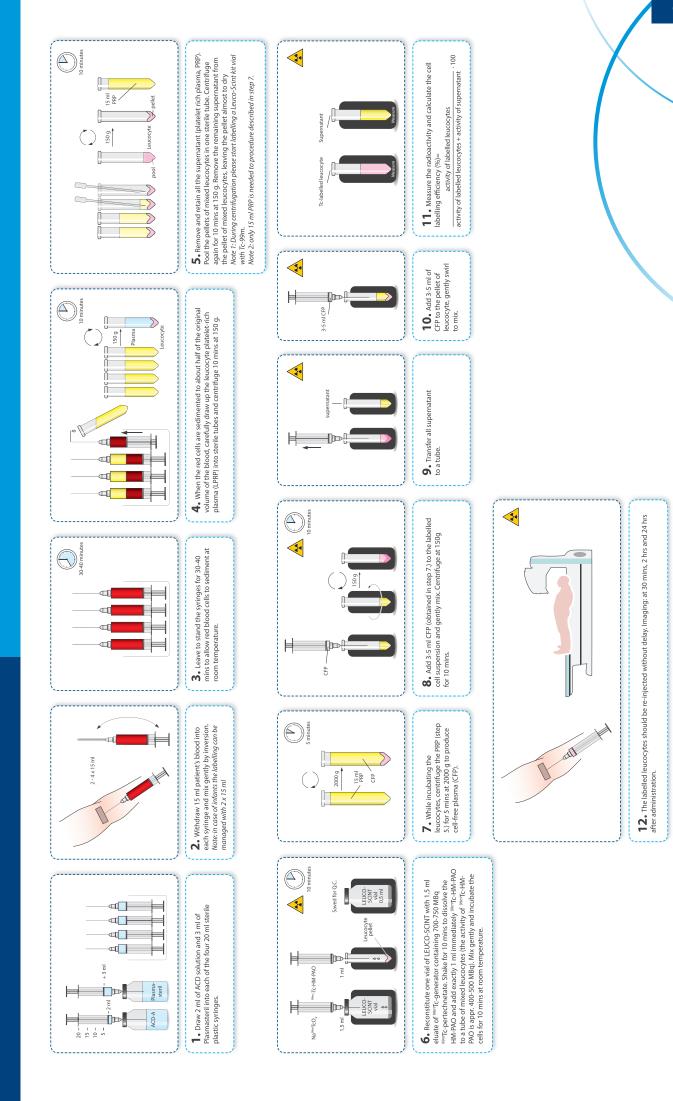
Leuco-Scint accessories kit Tc-MR-6/A

The kit contains sterile tubes and transfer pipettes for 3 complete leucocyte separations and labellings. The one-patient-package contains:

- 2 pcs 50 ml tube with screw cap
- 2 pcs 3 ml sterile Pasteur pipette
- 5 pcs 15 ml sterile tube with screw cap

LEUCO-SCINT kit

SEPARATION AND LABELLING PROTOCOL (Aseptic conditions should be kept throughout the separation and labelling process)



Renoscint MAG3 1 mg (Technetium (^{99m}Tc) tiatide) **Tc-MR-16**

Active substance	Betiatide To be used with sodium pertechnetate for the preparation diagnostic agent: Technetium (99m	of the
Indications	After reconstitution and labelling with sodium (^{99m} Tc) pertechnetate solution, the diagnostic agent technetium (^{99m} Tc) tiatide may be used intravenously for the evaluation of nephrological and urological disorders in particular for the study of morphology, perfusion, and function of the kidney and characterisation of urinary outflow.	
Excipients	Disodium tartrate dihydrate	
Excipients	Stannous (II) chloride dihydrate	
	Hydrochloric acid for pH adjustme	ent
Dose for adults	37-185 MBq, depending on the pathology to be studied and the method to be used. Studies of renal blood flow or transport through the ureters generally require a larger dose than studies of intra- renal transport, whereas renography requires smaller activities than	
	sequential scintigraphy.	
Labelling activity	maximum 2960 MBq	
Labelling volume	10 ml	
Storage of cold kit	18 months from date of manufacturing, Store in a refrigerator (2°C - 8°C)	
Storage of labelled compound	8 hrs, Do not store above 25°C	
Package size	1 pack contains 6 vials Sample package: 2 vials	
Registration numbers	Hungary: OGYI-T-23275/01 (1x) OGYI-T-23275/02 (6x) Czech Republic: 88/832/16-C Denmark: DK R 58417 Italy: AIC 045669013	United Kingdom: PL 27151/0001 Austria: 438272 Germany: 98671.00.00 Spain: 82909 Poland: 24615
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 10-12., Hunga	ary

Mercapton (^{99m}Tc-DMSA) Tc-MR-13

Active substance	Meso-2-3-dimercapto succinic acid
Indications	 The Tc-99m labelled compound can be used for static (planar or tomographic) renal imaging: Kidney scintigraphy, static imaging of kidney location Determination of functional kidney weight Determine the relative function (%) of the right and left kidneys
Excipients	Stannous(II) chloride dihydrate Sodium acetate trihydrate Ascorbic acid
Dose for adults	Recommended dose ranges for i.v. administration to patient of average weight (70 kg) for adults: 50-140 MBq
Labelling activity	Up to 3.7 GBq
Labelling volume	2-5 ml
Storage of cold kit	12 months from date of manufacturing, Do not store above 25°C Protect from light
Storage of labelled compound	6 hrs, Do not store above 25°C
Package size	6 vials
Registration numbers	Hungary: OGYI-T-9940/01
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary

ERCAPTO outical preparation

Renon (99mTc-DTPA) Tc-MR-11

Active substance	Acidum diaethylentriamino-pentaaceticum (DTPA) 10.0 mg	
Indications	 The Tc-99m labelled compound can After labeling with sterile 99m solution, it is indicated for: determination of glomerular fi visualization of the kidney by scintigraphy renal perfusion studies urinary tract studies renal artery stenosis estimation of transplanted kid Vesico-urethral reflux visualization of brain lesions (inhalation pulmonary scintigrap 	Tc-pertechnetate
Excipients	Stannous(II) chloride dihydrate Sodium acetate trihydrate Ascorbic acid	
Dose for adults	Suggested dose ranges are different investigation: Glomerular filtration: Renal perfusion: Visualization of brain lesions:	t according to the type of 111-185 MBq 370-740 MBq 370-740 MBq
Labelling activity	Up to 8 GBq	
Labelling volume	1-5 ml	
Storage of cold kit	24 months from date of manufactur Do not store above 25°C Protect from light	ing,
Storage of labelled compound	6 hrs, Do not store above 25°C	
Package size	6 vials	
Registration numbers	Hungary: OGYI-T-8816/01	
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary	

RENON %n-Tc-DTPA in vivo %nacetic acid (DTP)

Makro-Albumon (99mTc-MAA) Tc-MR-2

Active substance	Human Serum Albumin Macroaggregate 2.0 mg				
Particle size	90% are between 10 and 100 µm (2-4x10 ⁶ particles/vial)				
Indications	 The labelled MAA is suitable for Pulmonary perfusion scintigraphy Pulmonary embolism and myocardial infarct Chronic circulatory failure Local respiratory distress Emphysema Tumour Inflammation Visualisation of venous circulation Perfusion arterial scintigraphy of abdominal and retroperitoneal organs Detection of deep vein thrombosis in the lower extremities and pelvis Occlusion of the vena cava inferior 				
Dose for adults	Glucose Ascorbic acid Sodium chloride Lung scintigraphy: 37-185 MBq				
Labelling activity	Up to 3.7 GBq				
Labelling volume	2-8 ml				
Storage of cold kit	18 months from date of manufacturing, Store in a refrigerator (2°C -8°C) Protect from light				
Storage of labelled compound	8 hrs, Do not store above 25°C				
Package size	6 vials				
Registration numbers	Hungary: OGYI-T-8663-01 Czech Republic: 88/177/91-C Russia: ЛС-002157 Belarus: 10085/13/18 Turkey: 136/11 Croatia: UP/I-530-09/11-01/20				
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary				

Skeleton (99mTc-MDP) Tc-MR-10

Active substance	Methylene diphosphonic acid (MDP) 5.0 mg				
Indications	 primary bone tumours imaging bone metastases of other tumours (e.g. prostate, breast, lung cancer) osteomyelitis metabolic bone disease Paget's disease fractures avascular necrosis loosened/inflamed arthricular prosthesis arthricular inflammations (rheumatoid arthritis) 				
Excipients	Stannous(II) chloride dihydrate Tetrasodium pyrophosphate decahydrate Ascorbic acid				
Dose for adults	370-740 MBq				
Labelling activity	Up to 10 GBq				
Labelling volume	1-5 ml				
Storage of cold kit	24 months from date of manufacturing, Do not store above 25°C Protect from light				
Storage of labelled compound	8 hrs, Do not store above 25°C				
Package size	6 vials				
Registration numbers	Hungary: OGYI-T-8815/01 Hong-Kong: HK-64681 Taiwan: R00095				
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary				

Bromo-Biliaron (^{99m}Tc-Br-IDA) Tc-MR-12

Active substance	Mebrofenin [N-(3-bromo-2,4,6-trimethylphenylcarba- moil-methyl)-iminodiacetic acid] 5.00 mg				
Indications	 Hepatobiliary imaging Hepatobiliary function studies Evaluation of bile flow, and diagnosis of extrahepatic biliary obstruction, malfunctioning gall-bladder, gall-bladder inflammation, biliary duct artresia, biliary cysts or similar pathologic alterations of the biliary duct. 				
Excipients	Stannous(II) chloride dihydrate Sodium acetate trihydrate Ascorbic acid				
Dose	 Adult doses: 150-300 MBq Paediatric dose: to be adjusted to body weight. 20 MBq is the minimal dose (also in babies) to obtain images of sufficient quality in kidney studies 				
Labelling activity	Up to 6.0 GBq				
Labelling volume	Up to 6.0 GBq 2-5 ml				
Storage of cold kit	12 months from date of manufacturing				
Storage of labelled compound	6 hrs,				
Package size	6 vials				
Registration numbers	Hungary: OGYI-T-9941/01				
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary				

Pyroscint (99mTc-PYP) **Tc-MR-9**

Active substance	Sodium Pyrophosphate Decahydrate 60.0 mg				
Indications	 After radiolabelling with sodium (99mTc) pertechnetate solution, the solution obtained is indicated for Bone scintigraphy Cardiac scintigraphy, diagnosis of acute myocardial infarction After reconstitution with physiological sodium chloride solution in vivo or in vivo/in vitro red blood cell labelling for determination of blood volume and spleen scintigraphy. 				
Excipients	Stannous(II) chloride dihydrate Ascorbic acid				
Dose for adults	Suggested dose ranges are different according to the type of investigation				
Labelling activity	maximum 6.0 GBq				
Labelling volume	2-5 ml				
Storage of cold kit	24 months from date of manufacturing, Do not store above 25°C Protect from light				
Storage of labelled compound	6 hrs, Do not store above 25°C				
Package size	6 vials				
Registration numbers	Hungary: OGYI-T-8817/01				
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary				

ALBUMON (99mTc-Human Serum Albumin) **TC-MR-17**

Active substance	Human serum albumin (HSA) 30 mg				
Indications	Technetium (^{99m} Tc) human albumin is indicated for blood pool imaging, angiocardiography and ventriculography.				
Excipients	Stannous(II) chloride dihydrate Sodium chloride				
Dose for adults	 For static blood pool imaging the activity to be administered intravenously to varies between 111-185 MBq. Scintigraphy may start immediately after injection. For radionuclidic angiocardiography a rapid intravenous bolus (1-2 ml) of 370-740 MBq should be administered intravenously. For circulation and blood flow studies 18.5-185 MBq should be administered intravenously. Scintigraphy may start immediately after injection. For ventriculography 185-925 MBq should be administered intravenously. Scintigraphy may start immediately after injection. 				
Labelling activity	maximum: 2.2 GBq				
Labelling volume	2-5 ml				
Storage of cold kit	12 months from the date of manufacturing, Store in refrigerator (2°C-8°C)				
Storage of labelled compound	8 hrs, Do not store above 25°C				
Package size	6 vials				
Registration numbers	Hungary: OGYI-T-23147/01				
Marketing Authorization Holder	Medi-Radiopharma Co., Ltd. 2030 Érd, Szamos u. 10-12., Hungary				

QUALITY CONTROL PRODUCTS

MediCheck QUALITY CONTROL KIT MR-21

KIT FOR CHECKING THE QUALITY OF THE IN-HOUSE PREPARATION OF RADIOPHARMACEUTICALS

The kit is a complete compilation of reagents to check the Tc-99m generator and the labelling work in the hot lab of the nuclear medicine department and gives rapid and reliable results.

The ⁹⁹Mo/^{99m}Tc-99m sterile generator can be checked for

- radiochemical purity
- Al³⁺ content
- pH determination of the eluate.

The

- radiochemical purity
- Sn²⁺ content
- pH determination can be controlled right after the labelling in case of the following

^{99m}Tc labelled radiopharmaceuticals:

- Albumin colloid
- Succimer (DMSA)

- Colloidal tin
- Exametazime (HMPAO)
- Human albumin (HSA)
- Macrosalb (MAA)
- Mebrofenin (BrIDA)
- Medronate (MDP)
- Mertiatide (MAG3)
- Oxidronate (HDP)
- Pentetate (DTPA)
- Sestamibi (MIBI)

The kit is in complience with pharmacopeial methods and national regulations.

- Tetrofosmin
- Sn²⁺-pyrophosphate (PYP)
- Sodium pertechnetate injection (TcO⁴⁻) (fission and/or non-fission)

MEDICHECK Q. C. KIT

Sn(II) TESTSTREIE

Mini Medi-Check QC kits for SmPC QC methods of ^{99m}Tc radiopharmaceuticals

- ready to use kit for QC methods according to SmPC
- easy to use for all Tc-99m independent from supplier of cold kit

Supply package available for refill and for individual demand.

MEDI-MEDIA FILL KIT & MEDI-MEDIA-FILL KIT SUPPLY PACKAGE MR-25 & MR-25/S

ASEPTIC PROCEDURE SIMULATION TEST WITH PERSONNEL AND ENVIRONMENTAL MICROBIOLOGICAL MONITORING

Requirements for performing media-fill challenge tests (aseptic process simulation tests) are described and regulated as follows:

- The United States Pharmacopeia (USP) Chapter <797>
- European Pharmacopeia (Ph.Eur.)
- Current Good Manufacturing Practice (cGMP) in EudraLex Vol.4

Special requirements for aseptic preparations are also recommended by

- QuapoS4 a quality standard for oncology
- Current Good Radiopharmacy Practice (cGRPP) for radiopharmacy

MEDI-MEDIA-FILL KIT is suitable and applicable for all sterile medicinal products produced in situ in pharmacy and clinical laboratories including the simulation of sterile aseptic compounding and dispensing procedure of SPECT, PET and therapeutic radiopharmaceuticals, in addition non-radioactive parenteral medicines, oncology medicines. The kit provides also a useful tool for testing the personnel competency and environmental and personnel hygiene monitoring during the procedure.

- SENSITIVE reagents for detecting microbial contaminations
- COMPLEX tools for performing aseptic simulation tests
- FLEXIBLE applications for laboratories dedicated to aseptic preparations
- QUALIFIED and CERTIFIED components produced under GMP regulation
- RELIABLE results are accepted by authorities
- EASY TO USE without any special instrumentation
- SUPPLEMENTABLE components Supply kits are available.

KIT COMPONENTS

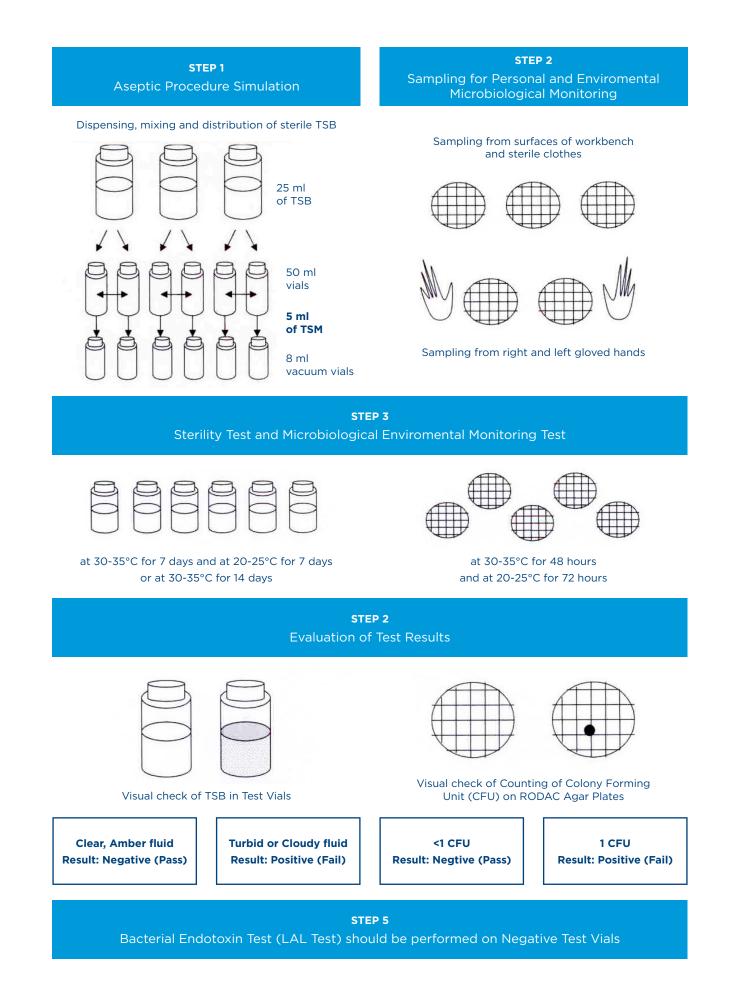
TSB-Solution 3 x 75 ml Test Agar Plate 5 Sterile Test Vial 6 x 50 ml Sterile Vacuum Test Vial 6 x 8 ml Cleaning Swab 6 Label for vials 12 Data Log Sheet Technical Leaflet

SUPPLY PACKAGE COMPONENTS

Available in 3 types of packaging: TSB solution 3 x 15 ml/kit TSB solution 4x 75 ml/kit TSB solution 9x 75 ml/kit Test-Agar Plates 5-20 pieces Data Log Sheet, Technical Leaflet



Flowchart of MEDI-MEDIA-FILL KIT



Sterile and vacuum vials

Sterile and sterile/vacuum vials with stopper and caps for preparation of radiopharmaceuticals and use for eluting Tc-99m sterile generator:

Volume	D=mm	H=mm	code (sterile)	code (sterile/vacuum)
6	22±0.2	40±0.5	V-MR-6R	VV-MR-6R
8	23±0.4	46.8±0.5	V-MR-8H	VV-MR-8H
8	22±0.2	45±0.5	V-MR-8R	VV-MR-8R
10	23±0.2	55±0.5	V-MR-10	VV-MR-10
15	26.5±0.45	58.8±0.6	V-MR-15H	VV-MR-15H
15	24±0.2	60±0.5	V-MR-15R	VV-MR-15R
20	32±0.45	58±0.6	V-MR-20H	VV-MR-20H
50	42.5±0.8	73±0.8	V-MR-50H	VV-MR-50H
100	51.6±0.8	94.5±0.8	V-MR-100H	

Available colours of caps:



Certificates of quality is attached to the shipment.



grey

purple

brown

BROAD EXPERIENCE, EXPERTISE & CAPABILITIES

MEDI-RADIOPHARMA Ltd. is open for requests for contract manufacturing of small volume sterile injectable products (cGMP aseptic manufacturing, lyophilised products).

MEDI-RADIOPHARMA Ltd. is also open for requests and suggestions on new research and development projects in the field of nuclear medicine. Our world-class sterile injectables capabilities include formulation and process development and manufacturing of sterile injectable drug products at scales suitable for small clinical trials to global commercial supply. We will bring speed, flexibility, experience and a broad set of capabilities to your program.

Our experts have the experience and capabilities to develop an optimal formulation and process with long-term commercial manufacturing in sight.

Offerings include:

- Formulation development
- Manufacturing process development
- Process Validation for Steriles
 - Freeze-thaw studies
 - Cleaning validation
 - Product contact part compatibility studies
 - Sterilization cycle development and validation
- Validation of analytical assays
- Release testing
- ICH stability studies
- Container shipment studies

MEDI-RADIOPHARMA Your Global Nuclear Medicine Supplier

SERVICES

cGMP CONTRACT MANUFACTURING

- small volume sterile products according to cGMP for clinical trials and R&D
- investigational medicinal products
- synthetically prepared active pharmaceutical ingredients (API) for diagnostic kits

GLP CONTRACT RESEARCH SERVICES

- active and inactive analitical method development and validation
- animal testing, biodistribution studies
- license for all isotopes (including a-Emitters)

CONTRACT QUALITY CONTROL TESTING SERVICE

DISTRIBUTION acc. to GDP

- physical
- chemical/radiochemical
- biological

- pharmaceuticals
- radiopharmaceuticals
- isotope generators





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