

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 30 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.

MANUFACTURING AND Q.C. SITES OF MEDI-RADIOPHARMA LTD.







CONTENT

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Radiopharmaceuticals for cardiac studies (^{99m}Tc-MIBI)

Medi-Mibi 500	micrograms	(Tc-MR-1)	

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Services	

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

Active substance	Human Serum Albumin
Particle size	At least 95 % of human a diameter ≤ 80 nm.
Indications	 Intravenous administration Bone marrow scar suitable to study to of the bone marrow Inflammation scan
	 Subcutaneous administ Conventional lymp of the lymphatic s lymphatic obstruct Sentinel node dete Melanoma mali Breast cancer
Excipients	 Stannous(II) chloride Glucose monohydrat Sodium dihydrogen j di-Sodium hydrogen Nitrogen Hydrochloric acid Sodium hydroxide
Dose for adults	Intravenous application • Bone marrow scar • Inflammation scar Subcutaneous administ • Lymphoscintigraph Sentinel node detection • Malignant melano
	Breast cancer: tot
Labelling activity	185 MBq - 5.5 GBq
Labelling volume	1-5 ml
Storage of cold kit	18 months from date of Do not store above 25°
Storage of labelled compound	8 hrs, Do not store above 25°0
Package size	6 vials
Registration numbers	Germany: 81340.00.00 Denmark: DK R 02248 Austria: 4-00046 Italy: 414/2012 Spain: 76905

Marketing Authorization Holder Radiopharmacy Laboratory Ltd. 2040 Budaörs, Gyár u. 2., Hungary

nano sized colloid 500 micrograms

albumin colloidal particles have

ation:

- nning (The product is not the haematopoietic activity
- (wc
- ning in areas other than the abdomen

tration:

- phoscintigraphy to demonstrate integrity system and differentiation of venous from ction ection in:
- ignum
- e dihydrate
- te
- phosphate dihydrate,
- phosphate dihydrate

n:

nning: 185-500 MBq (i.v. injection) nning: 370-500 MBq (i.v. injection)

tration:

hy: 18.5-110 MBq per injection site

n:

oma: total activity applied 40-100 MBq al activity applied 100-200 MBq

manufacturing,

00	Belgium: BE471911
48	The Netherlands: RVG 112760
	Poland: 22470
	Romania: 9353/2016/01-04
	United Kingdom: PL 40129/0002



Marketing Authorization Holder

Medi-Radiopharma Co., Ltd. 2030 Érd, Szamos u. 10-12., Hungary

- Human Serum Albumin nano sized colloid 1.0 mg
- More than 80% of the particles have a size maximum

 - Sodium phosphate monobasic & Sodium phosphate dibasic
- Suggested dose ranges are different according to the type





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 		 Infectious or inflammatory diseases Localisation of abnormal foci guiding the aetiolog Diagnosis of infection in case of suspected osteo hip or knee prosthesis infection. Detection of the extension of inflammation in case 	
Dose for adults	Diagnosis of reduced coron 400 - 900 MBq Diagnosis of ischaemic hea • Two-day protocol: 600	nary perfusion and myocardial infarction: rt disease: D-900 MBg/study	Excipients	Stannous(II) chlori Tetrasodium pyrop
	One-day protocol: 400 Assessment of global ventr 600-800 MBq injected	D-500 MBq icular function: d as a bolus	Dose for adults	Brain perfusion SP Labelled leucocyte
	Scintimammography: 700 - 1000 MBq inject	red as a bolus	Labelling activity	0.37-2.2 GBq
	Localisation of hyperfunction 200 - 700 MBq injecte	oning parathyroid tissue: ed as a bolus	Labelling volume	5 ml
Labelling activity	Up to 15 GBq		Storage of cold kit	12 months from da Store at 2-8°C
Labelling volume	1-5 ml		Storage of labelled compound	1 hr, Do not store above Protect from light
Storage of cold kit	30 months from date of man Do not store above 25°C Protect from light	nufacturing,	Package size	6 vials
Storage of labelled compound	8 hrs, Do not store above 25°C		Registration numbers	Denmark: DK R 49 Germany: 86253.0 Austria: 4-00051
Package size	6 vials			United Kingdom: F
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 L a 2040 Budaörs, Gy
Marketing Authorization Holder	Radiopharmacy Laboratory 2040 Budaörs, Gyár u. 2., Hu	Ltd. ungary		







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





tiologic diagnosis in case of fever of unknown origin steomyelitis (with or without implants) and suspected

n case of inflammatory bowel disease.

chloride dihydrate oyrophosphate decahydrate

on SPECT: 350-500 MBg ocyte scintigraphy: 200 MBg

m date of manufacturing,

above 25°C

R 49482 Turkey: 135/53 253.00.00 Spain: 77468 Italy: AIC n 042496024 om: PL40129/0001M Hong-Kong: HK-64514

cy Laboratory Ltd. s, Gyár u. 2., Hungary

Brain-Spect (^{99m} ⊤c-⊢ Tc-MR-5	IM-PAO)	Stabilised Brain-Spe (Technetium [^{99m} Tc] e	ect exametazim HM
Active substance Indications	 Exametazime 0.3 mg 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. 	Active substance Indications	 Exametazime 0.5 mg Brain scintigraphy: Regional cerebratic cerebratic blood filtrauma, tumours The stabilised Billocalize the alternative the size
	 Detection of affected cortical areas over 1-2 cm is feasible by planar gamma camera, the smaller areas can be detected by SPECT. 	Excipients	Lyophilizate: Stannous(II) chloride Sodium-pyrophospha
Excipients	Stannous(II) chloride dihydrate Tetrasodium pyrophosphate decahydrate		Cobalt(II)-chloride sc Cobalt(II)-chloride-he Water for injection
Dose for adults	370-740 MBq (i.v. injection)	Dose for adults	350-500 MBq intrave
Labelling activity	370-2200 MBq	Labelling activity	0.37-2.2 GBq
Labelling volume	5 ml	Labelling volume	5 ml
Storage of cold kit	12 months from date of manufacturing, Store in a refrigerator (2-8°C)	Storage of cold kit	12 months from date of Store in refrigerator (2
	Protect from light	Storage of labelled compound	Stabilised labelled pro Do not store above 25
Storage of labelled compound	Thr, Do not store above 25°C Protect from light	Package size	6 injection vial contain solution in a carton be
Package size	6 vials	Registration numbers	Hungary: OGYI-T-873
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 L a 2030 Érd, Szamos u. 1
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary		

1PAO)

al blood flow scintigraphy (Stroke, reduced flow, ischemic attack, epilepsy, migraine, s of the brain, differential diagnosis of dementia). Brain-Spect 0.5 mg kit is able to recognise, red cerebral cortical tissue perfusion and to e of the damaged area.

dihydrate ate-decahydrate

olution: exahydrate

nously

of manufacturing, 2°C - 8°C)

oduct 6 hrs, 5°C

ning powder and 6 injection vial containing ох

3/02

td. 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





Renoscint MAG3 1 n Tc-MR-16	ng (Technetium (^{99m} Tc)	tiatide)	Mercapton (^{99m} Tc-DN Tc-MR-13	MSA)
Active substance	Betiatide To be used with sodium pertechnetate for the preparation diagnostic agent: Technetium (^{99m}	(^{99m} Tc) of the Tc) tiatide.	Active substance Indications	Meso-2-3-dimercapto The Tc-99m labelled c
Indications	After reconstitution and labelling pertechnetate solution, the diagnot technetium (^{99m} Tc) tiatide may be for the evaluation of nephrological disorders in particular for the study perfusion, and function of the kidr	with sodium (^{99m} Tc) ostic agent used intravenously al and urological dy of morphology, hey and characterisation		 (planar or tomographi • Kidney scintigra location • Determination of • Determine the r and left kidneys
Excipients	Disodium tartrate dihydrate Stannous (II) chloride dihydrate		Excipients	Stannous(II) chloride o Sodium acetate trihyd Ascorbic acid
	Hydrochloric acid for pH adjustme	ent	Dose for adults	Recommended dose r average weight (70 kg
Dose for adults	37-185 MBq, depending on the pat method to be used. Studies of ren	thology to be studied and the al blood flow or transport through	Labelling activity	Up to 3.7 GBq
	the ureters generally require a larg renal transport, whereas renograp sequential scintigraphy.	ger dose than studies of intra- hy requires smaller activities than	Labelling volume	2-5 ml
Labelling activity	maximum 2960 MBq		Storage of cold kit	12 months from date o Do not store above 25 Protect from light
Labelling volume	10 ml		Storage of labelled	6 brs
Storage of cold kit	18 months from date of manufactu Store in a refrigerator (2°C - 8°C)	uring,	compound	Do not store above 25
Storage of labelled compound	8 hrs, Do not store above 25°C		Package size	6 vials
Package size	1 pack contains 6 vials Sample package: 2 vials		Registration numbers Marketing Authorization	Hungary: OGYI-T-994
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	Holder	2030 Érd, Szamos u. 1
Marketing Authorization	Medi-Radiopharma Ltd.			

arketing Authorization Holder

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o succinic acid

compound can be used for static hic) renal imaging: raphy, static imaging of kidney

of functional kidney weight relative function (%) of the right 's

e dihydrate vdrate

ranges for i.v. administration to patient of (
(g) for adults: 50-140 MBq

of manufacturing, 25°C

25°C

40/01

L**td.** 1012., Hungary

Renon (99mTc-DTPA) Tc-MR-11	RECON WATCH AND	Makro-Albumon (^{99m)} Tc-MR-2	Tc-MAA)
Active substance	Acidum diaethylentriamino-pentaaceticum (DTPA) 10.0 mg	Active substance	Human Serum Album
Indications	 The Tc-99m labelled compound can be used for: After labeling with sterile 99mTc-pertechnetate solution, it is indicated for: determination of elemental filtration (CED) 	Particle size Indications	90% are between 10 The labelled MAA is s
	 determination of glomerular filtration (GFR) visualization of the kidney by sequential scintigraphy renal perfusion studies urinary tract studies renal artery stenosis estimation of transplanted kidney function Vesico-urethral reflux visualization of brain lesions (tumor, bleeding) inhalation pulmonary scintigraphy (using a suitable nebulizer) 		 Pulmonary perf Pulmonary e Chronic circu Local respira Emphysema Tumour Inflammation Visualisation of Perfusion art retroperitone Detection of
Excipients	Stannous(II) chloride dihydrate Sodium acetate trihydrate Ascorbic acid		 Detection of extremities a Occlusion of
Dose for adults	Suggested dose ranges are different according to the type of investigation: Glomerular filtration: 111-185 MBq Renal perfusion: 370-740 MBq Visualization of brain lesions: 370-740 MBq	Excipients Dose for adults	Stannous(II) chloride Glucose Ascorbic acid Sodium chloride
Labelling activity	Up to 8 GBq	Labelling activity	Up to 3.7 GBq
Labelling volume	1-5 ml	Labelling volume	2-8 ml
Storage of cold kit	24 months from date of manufacturing, Do not store above 25°C Protect from light	Storage of cold kit	18 months from date Store in a refrigerato Protect from light
Storage of labelled compound	6 hrs, Do not store above 25°C	Storage of labelled compound	8 hrs, Do not store above 2
Package size	6 vials	Package size	6 vials
Registration numbers Marketing Authorization Holder	Hungary: OGYI-T-8816/01 Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary	Registration numbers	Hungary: OGYI-T-866 Czech Republic: 88/1 Russia: JC-002157 Belarus: 10085/13/18 Turkey: 136/11 Croatia: UP/I-530-09

Holder

Marketing Authorization

nin Macroaggregate 2.0 mg

and 100 μ m (2-4x10⁶ particles/vial)

- suitable for
- fusion scintigraphy
- embolism and myocardial infarct
- ulatory failure
- atory distress

n

- venous circulation
- terial scintigraphy of abdominal and
- eal organs
- deep vein thrombosis in the lower
- and pelvis
- the vena cava inferior

dihydrate

7-185 MBq

of manufacturing, r (2°C -8°C)

25°C

63-01 177/91-C

9/11-01/20

Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary



Skeleton (99mTc-MDP) Tc-MR-10		Bromo-Biliaron (?? Tc-MR-12	™Tc-Br-IDA)
Active substance	Methylene diphosphonic acid (MDP) 5.0 mg	Active substance	Mebrofenin [N-(3-l moil-methyl)-iming
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 		 Hepatobiliary image Hepatobiliary Evaluation of extrahepatic gall-bladder, duct artresia alterations of
	 loosened/inflamed arthricular prosthesis arthricular inflammations (rheumatoid arthritis) 	Excipient	Stannous(II) chlori Sodium acetate tri Ascorbic acid
Excipients	Stannous(II) chloride dihydrate Tetrasodium pyrophosphate decahydrate Ascorbic acid	Dos	 Adult doses: 150-3 Paediatric do 20 MBq is the of sufficient of
Dose tor adults	370-740 MBq	Labelling activit	Up to 6.0 GBq
Labelling activity	Up to 10 GBq	Labelling volum	2-5 ml
Labelling volume	1-5 ml		12 months from da
Storage of cold kit	24 months from date of manufacturing, Do not store above 25°C	Storage of cold ki	Do not store above Protect from light
	Protect from light	Storage of labelle compound	6 hrs, Do not store above
Storage of labelled compound	8 hrs, Do not store above 25°C	Package size	e 6 vials
Package size	6 vials	Registration number	Hungary: OGYI-T-9
Registration numbers	Hungary: OGYI-T-8815/01 Hong-Kong: HK-64681 Taiwan: R00095	Marketing Authorization Holde	Medi-Radiopharm 2030 Érd, Szamos
Marketing Authorization	Medi-Padionharma I td		

Medi-Radiopharma Ltd. Holder 2030 Érd, Szamos u. 1012., Hungary



(3-bromo-2,4,6-trimethylphenylcarbaninodiacetic acid] 5.00 mg

naging

iary function studies

n of bile flow, and diagnosis of atic biliary obstruction, malfunctioning der, gall-bladder inflammation, biliary esia, biliary cysts or similar pathologic ns of the biliary duct.

loride dihydrate trihydrate

0-300 MBq

dose: to be adjusted to body weight. the minimal dose (also in babies) to obtain images ent quality in kidney studies

date of manufacturing, ove 25°C

ove 25°C

-T-9941/01

rma Ltd. nos u. 1012., Hungary

Pyroscint (99mTc-PYF Tc-MR-9		ALBUMON (99mTc-H TC-MR-17	uman Serum Al
Active substance	Sodium Pyrophosphate Decahydrate 60.0 mg	Active substance	Human serum albumir
Indications	After radiolabelling with sodium (99mTc)	Indications	Technetium (^{99m} Tc) hu pool imaging, angioca
	 is indicated for Bone scintigraphy Cardiac scintigraphy, diagnosis of acute 	Excipients	Stannous(II) chloride o Sodium chloride
	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.	Dose for adults	 For static blood pointravenously to vaimmediately after in For radionuclidic and
Excipients	Stannous(II) chloride dihydrate Ascorbic acid		 For radionactical at (1-2 ml) of 370-740 For circulation and administered intrav
Dose for adults	Suggested dose ranges are different according to the type of investigation		 For ventriculograph intravenously. Scint
Labelling activity	maximum 6.0 GBq	Labelling activity	maximum: 2.2 GBq
Labelling volume	2-5 ml	Labelling volume	2-5 ml
Storage of cold kit	24 months from date of manufacturing, Do not store above 25°C	Storage of cold kit	12 months from the da Store in refrigerator (2
	Protect from light	Storage of labelled compound	8 hrs, Do not store above 25
Storage of labelled compound	6 hrs, Do not store above 25°C	Package size	6 vials
Package size	6 vials	Registration numbers	Hungary: OGYI-T-2314
Registration numbers	Hungary: OGYI-T-8817/01	Marketing Authorization	Medi-Radiopharma Co
Marketing Authorization Holder	Medi-Radiopharma Ltd. 2030 Érd, Szamos u. 1012., Hungary	Holder	2030 Era, Szamos u. I

(Ibumin)

in (HSA) 30 mg

uman albumin is indicated for blood cardiography and ventriculography.

e dihydrate

bool imaging the activity to be administered varies between 111-185 MBq. Scintigraphy may start r injection.

angiocardiography a rapid intravenous bolus

O MBq should be administered intravenously. d blood flow studies 18.5-185 MBq should be

avenously. Scintigraphy may start immediately

phy 185-925 MBq should be administered ntigraphy may start immediately after injection.

date of manufacturing, (2°C-8°C)

25°C

47/01

Co., Ltd. . 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
- 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.

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



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 guality 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



Bacterial Endotoxin Test (LAL Test) should be performed on Negative Test Vials

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.



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 worldclass 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

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

CONTRACT QUALITY CONTROL TESTING SERVICE

- physical
- chemical/radiochemical
- biological

GLP CONTRACT RESEARCH SERVICES

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

DISTRIBUTION acc. to GDP

- pharmaceuticals
- radiopharmaceuticals
- isotope generators





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