- .²⁰⁰



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To:	Colleen Casey	From	Roland Sawyer	· · · · · · · · · · · · · · · · · · ·
Feor	630-829-078 2	Pagan	3 including cover	
Phone:		Dute:	12 December 2005	
Rec	Amendment Request	CC:	<u></u>	
Urgeat	For Review	Please Comment	Please Reply	Plaze Recycle

Colleen,

Attached is the package insert for the BMS generator an requested. Page 1 of the insert gives the description and chemical form that appears to be essentially he same as ours. The NDA's are listed on page 2 in the section "How Supplied".

Please feel free to give me a call if there are any questions .

Thanks,

Roland Sawyer (Chip)

Manager EH&S / RSO

Maryland Heights Plant

Tyco Healthcare Mallinckrodt

314-654-7644 office / 314-267-0723 cellular

12/25/2014 02:25 FAX

12/25/2014 02:25 FAX DESCRIPTION: Sodium Perseconstate To 99m injection, as situled according to the alu-tion instructions with Bristol-Myers Squibb Medical Imaging. Inc. TECHNELITE⁶, Technetium To 99m Generator, is in Sodium Chioride 0.9% as a sterie, normono-disploadic radiopharmacruticel soltable for intravences injection, and administration, and direct institution. The pH is 4.5-7.5. The aluate should be clear, colorisas, and the from whole toreign material. Each obstate of the TeChNELITE⁶. Technetium To 99m Generator should net contain more than 0.0056MEG (0.15 microcuries) of Molybdomam Med9 per 37MBq (1 millicurie) of Technetium Tc 99m per administered done at the from daminis-tration, and not more than 10 micrograms of aluminum per millitler of the Technetium Tc 99m Generator elvate, both of which must be determined by the user before administe-tion one (1) working day after the aluminous be determined by the user before administr-ation. Since the situes docs not contain an entimicrobial agoint, it should not be used later than one (1) working day after the aluminous sealed in e cylind(tical pital) not be used later than one (1) working day after the aluming the size on the cloaded Molybdomum Med9 adapted nandle. Built into the top aurinos ere two receased whiles much of OLECT. Needlaw Tc 99m Generator consists of a cultum combining fission produced Molybdomum Med9 adapted handle. Built into the top aurinos ere two receased whiles much of OLECT. Needlaw the sector and of the alumine. The terminally satifized and seeted column is enclosed in a load shickit, the shield and other components are alway the sector and the sector consists of service sector vials. The eluxies collection vials is and the sector collection vials and sterile eluxies collection vials. The eluxies collection vials is and the collection vials and sterile eluxies collection vials. The eluxies collection vial should be whole to visit and sterile eluxies of the top acting and there collection vials is ou

 $\label{eq:Physical CHARACTERSTICS} Physical CHARACTERSTICS Technetium To 99m decays by jeometic transition with a physical half-life of 6.02 hours.$ Physicas that are useful for imaging studies are listed in Yable 1.

Table 1. Principal Redigtion Emission Data - Technotium To 20m						
Radiation	Mean %/Disintegration	Moan Energy (keV)				
Getterne-2	89.07	140.5				

Padiation	Mean %/Disintegration	Moan Energy (keV)				
Gatterna-2		140.5				
¹ Kester, David C., "Regionative Decky Date Televa," DOI:(TIC-11025, 100 (1981).						



EXTERNAL RADIATION

EXTERINAL RADATION The specific gamma ray constant for Technetium Tc 99m is 5.4 micro-coulombs/Kg-MBq-hr (0.78 R/mChir) at 1cm. The first hall-value thicknoss is 0.017cm of lead (PD). To facilitate control of radiation supposer from milicuric angunts of Technetium Tc 99m, for example, the use of a 0.25 cm thick standard redistion elution lead shared will attenuate the radiation emit-ted by a factor of about 1000. A range of values for the relative attenuation the radiation emitted by this radionuclicle that results from interposition of verous thicknesses of lead is shown to Techna. shown in Table 2.

NOTE: Brianush the generator is well contained and assantially dry, there is little likelihood or contemination due to damage in transit. The most probable source of leakage resulting from damage in transit is the normalipactive slught charge vial.

Table 2. Rediction Attenuation of Technetium To 99m by Leed Shielding

Shield Thickmans lead (Pb) cm	Confficient of Azenuation
0.017	0.5
0.00	101
0.16	10-2
0.25	10-9
0.33	10-4

Molybdenum Mo99 docs 11 to Technetium To 99m with a Molybdenum Mo9P half-life of 60 hours. The physical decel theradateristics of Molybdenum Mo9P at the devia Buth that devia Buth thu decaying it alybdenum Mo9P at ome form Technetium To 99m. This means that why 79% of the activity remains after 24 hours; 60% remains ener 46 hours, atc, At units have a minimum of 86 mm, 1,5 inchas (- 6 hoir-value layers til feed surrounding the activity. Since the Molybdenum Mo99 is constantly docs, rig to freeh Technetium To 99m, k is possible to okum the genera-tor at env time. (See Table %)

Table 3, M: Historium Mo59 Decay Chart Half-Life 85.0 Hours

Days	Perceri	Kamaining	Days	Parcent Pernaining
0		0	. 8	t3
1		18	9	10
2		动	10	6
3		4 T'	11	6
4		16	12	5
5		16	13	4
6		12	14	3
7	,	17		

Generator elutions m: , be mede at any time, but the amount of Technetium To Sen evelopie will dept to on the interval from the last elution. Approximately 47% of maxi-mum Technetum To Sen treated after 6 hours and SS's after 74 hours. The elution viai shick that has a wall mickness of 7,8 mm, 0.31 inches, and induces trans-milled Technetum To Sen restartion essentially to zero. To contool for physical dreaty of To Sentier the heations that for the selected intervals of lines are shown in Table 4.

in 20 Statistical Statistics of the state ساف بسماله

Hours	Por unt Remaining	Hours	Porengi Hamalalog
0-	100.0	7	44.7
1	69.1	8	30.8
2	79.4	9	35.5
3	70.6	10	31,Û
4	63.1	71	28.2
5	56,2	12	25.1
â	50.1		

CLINICAL PHARMACOL: 1711: The percentrelize ion distributes in the body similarly to the locker ion but is not orga. If ad when trapped in the thytoid gland. Perfecting in a accumulate in instanzania instanta with excessive necessarcularity or an altered block-brain borrier, it also concentrate in the chorder plants, thyroid gland, solvery glanda, and som soh, However, in contrast (: the locker ion, the perfectments) is released unchanged form the thereit a heart in the chorder ion.

Definite it also concentrate in the onclose plastice, thyroid glands, solvery glands, and solver ach, However, in contrast it is the lottice ion, the periodiumized is the After introvesputial at it instruction it mannine in the proutatory system for sufficient to sermit blood pool, orgin periodican, and major vessel auditors. It gradually oquilibrates with the exclusionity upon: In fraction is promptly excitated via the kidnays, Pollowing the administ raken of bodium Periodiheratar To Sam injection 35 an eye drup, the drug mixes with teams into the conjunctival space. Within accordent to minutesi it teams is not the team and the second team of the second to minutesi it teams constructival spaces are: recepted into the inferior mostus of the nose through the con-landing the administer into the conjunctival space. Within accordent to minutesi it teams constructive spaces are: recepted into the inferior mostus of the nose through the nase construction and the second second team of the second to minutesi it teams the benergy system. During this process the periodic team of any distantian administer of the drait cost system thore will be a backforw resulting in transcending the construction and teams of the promotion teams of the major cost on normal while the major parts: it is to periodinate resolutions during in transcending of administer within a finance (set) to the cost function of the teams. Out the protection withing in teams of the drait cost system theory rate of cost function of the mass of normal withing the major parts (set) that there rate administer using a system withing a team of teams of normal withing the major parts (set) (set) and your rate of cost proteoting regression with a final set) (set) with a final (set) (set) within the patients within inflamed conjunctive due to a transcending it is the status of team of teams, it is to a cost with your of the teams individuals, to C21/min in patients without any set of (tor Cast teams of the protechnetize status aborded) with re

INDICATIONS AND LIBAL II: Sortium Partachmeters To 99m intection is used IN ADULTS nt for us en e**g**i

an again far: Brain Imaging (Includin) cerebral radionuclide anglography) Thyroid Imaging Salivary Gland Imagin; Placente Localization Blaced Pool Imaging (In Liding radionuclide anglography) Dirinary Blacker (Im (Int) direct locatopic systegraphy) for the detection of variaburched rates: Neadecrime! Drainaget 3:stem Imaging

restancement rearranget to be an investing Sodium Penetoherate To: 3 to injection is used in CHILDREN as an agent for: Beals imaging (includin) transbrait adjonuctide angiography) Thyroid Imaging Biodd Pool Imaging Biodd Pool Imaging Urinary Bladder trn; ing (direct isotopic cystography) for the detection of vestor-unstant refusion

CONTRAINDICATIONS: 1- stie known,

WARNINGS: Rediator: lisks associated with the use of Sodium Perlechnoialo To 99m injection and grot or in children than in adults and, in general, the younger the child, the greater the risk swing to greater absorbed radiation down and longer kle-sopectance. These greater risks should be taken timly into account in all benefit-tike assessments involving children.

General As in the use of any molect two material, care should be taken to minimize radiation expo-sure to the partent consister (with proper patient management and to ensure minimum radi-ation exposure to occupating the workers.

ation exposure to occupatit "all workers. Since the statistic does: I :: contain an entimicrobial egent. If should not be used after 12 hours from the time of TCC I ISLITE's rectineation TC Bern Generator duition. After the turnination: I the nesselectmail imaging procedure, blowing the ness and washing the args with start; of distilled water or an isotoric sodium chickle solution will fur-ther minimate the material in the start is the start of the start of the start of the start Readiophermacewitchic i the. Readiophermacewick to be used only by physicians who are cualitied by training and experience in the task i shalling of reationuc/date and whole experience and training have been approved by the uppropriate government signing using the isotoric because the use of having these the start isotoric government signing using the isotoric because the use

Carchet: ; incats, Mutagenesis, Imperment of Fenility No enimal sudjee have to an performed to evaluate carcinogenic pointial or whether Sodium Panachinatata Te ; in effects letility in mélais or formate.

Programov category C Programov category C Animal reproductive studie: Lawa not been conducted with Sodium Pertachnologie 7c 99m, h te alte not known wriether 3 situm Pertachnologie 7c 99m cate cause leta harm whan achin-tatered to a pregnant woman in a constraint approduction capacity. Sodium Pertachnologie statered to a pregnant woman only if clearly needed. Ideally examinations us up raciophormaceuticale, adouctally index dictive in neuros, of a woman of childbearing c : statility should be performed during the first few (npproximately 10) days (ollowing the onset of mensee.

Numing Mothers Sodium Parachnoloto To 5) (1) is excreted in human milk during lactation; therefore formula legings should be aubatity (1) for breast leging. This redoptermacount 1: preparatine should not be administered to pregnent or lactat-ing women unless expects: humofilm to be gained outweigh the pointtiel risks.

Pediatric Use See INDICATIONS and DC 14GE AND ADMINISTRATION sections. Also soc the descrip-tion of additional risks under 11/ARNINGS. Carinatic Use Circlast studies of Technel: 1^e dict not include sufficient numbers of subjects aged 65 and own to determine whether into respond differences in responsed. Other reported clinical experience has no - contribut differences in responsed between the elderly and

12/25/2014 02:26 FAX

younger parlents. In general, does selection for an orderly patient should be cautious, usu-ally starting at the low and of the dosing range, reflecting the greater frequency of decreased hapatic, renai, or cardiac lunction, and of concrynitant disease of other drug therapy

ADVERSE REACTIONS: Allergic reactions including enaphylaxis have been reported intreguently following the administration of Sodium Pertechnetate To 99ra Injection.

Intrequently tollowing the administration of Sodium Pertechnetate To Shr. Injection. **DOBAGE AND ADMINISTRATION:** Sodium Pertechnetate To Shr. Injection is usually administered by intravenualiar Injection but can be given orally. For Imaging the unhary bladder and uniters (direct isotopic cystography), the Sodium Pertechnetate To Shr. Injection is administered by direct isotopic dystography), the Sodium Pertechnetate To Shr. Injection is administered by direct isotopic dystography), the Sodium Pertechnetate To Shr. Injection is administered by direct isotopic dystography), the Sodium Pertechnetate To Shr. Interview Solid Control (1990), the calibratic isotopic dystography) and the bladder via a urethrat directly into the bipdder. The dosega employed varias with each disgnose procedure. If the can invite is effected. The dosega employed varias with each disgnose procedure. If be can invite is effected. Use addim to build lost for it least et (5) hours before and two (2) hours atter administration. When imaging the nasoliscrimal drainage system, instill the sodium Pertachnetate To Shr injection by the use of a dovice such as its incropipelie or imme appendent with will ensure the adouter of the dose. The suggested dose range employed for various diagnostic indications in the average ADULT PATIENT (70kg) is:

NAME IN THE REPORT OF A DAMAGE AND AND AND A	
Vesico-vretoral Imagino	18.5 to 37MBg (0.5 to 1mC!)
Brain Imaging	370 to 740MBg (10 to 20mCi)
Thyroid Gland Imaging	37 to 370M/8q (1 to 10mCl)
Salivary Gland Imaging	37 to 185MBg (1 to 5mCl)
Placento Localization	37 to 111 MBg (1 to 3mCl)
Blood Poel Imaging	370 to 1110M8q (10 to 30mCi)
Nosolecrimet Dreinage Sy	stem Mex. 3.7M5q (100µCl)
The recommended dosag	e range in PEDIATRIC PATIENTS Is:
Vesico-preteral imaging	18.5 in 37MBa (0.5 in 1mCi)
erain Imaging	5.18 to 10.36MBq (140 to 2ROUCI)/kg body weight
Thyroid Gland Imaging	2.22 to 2.96MBg (60 to 50µCl)/kg body weight

Blood Pool Imaging 5,19 to 10.36MBq (140 to 280µCi)/kg body walght A minimum dose of 111 to 185MBq (3 to 5mCi) should be employed if realistucilies lography is performed as part of the blood pool or brain imaging procedure.

Angiography is performed as part of the blood pool or brain imaging procedure. NOTE: Up to one (1) gram of pharmacesuical grade possessium percharate in a cultable brase or copsule may be given prior to administration of Sodium Percebnemic To Som Injection. When Sodium Percebnetiate To Sim injection is used in children to triath or blood pool imaging, the administration of polassourn percharate is especially important is order to mini-mits the absorbed redistion does to the thrytoid grad. The patient does should be measured by a suitable radioactivity calibration system immediately prior to administration of his does. Percenteral drug products should be imacured by a suitable radioactivity calibration be administored as the patient does visual be imacured by a suitable radioactivity calibration be administored as the patient does used to imacondul do imacondul or particulate matter and dis-coloration prior to administration whomover radiution and container particulate matter. Do not use an stante of the TECHNELITE[®], Technetium To Sem Generator later than one (1) work-ling day after pluton (12 hours).

PACIATION DOSIMETRY The selfineted abaorbed rediation doses² to an average ADULT patient (70 kg) from an intravenous injection of a maximum dose of 110/MBq (30 mhittouries) of Sodium Perechnetise To 95m fraction deributed uniformity in the total body of subjects not of the trasted with blocking agents such as pharmaceulical grade polaseium perchitotate are shown in Table 5. For placents localization studies, where a maximum of 111MBq (3 mil-ouries) is used, it is assumed to be uniformity equilibrated between maternal and ictuil ta-rated.

mGy/1110MBg					
(acis/30 milicuries)					
Tk::::::::::::::::::::::::::::::::::::	Flesting Population	Active Population	mGy/111MBc (ra ¢s/<u>3rnCi</u>)		
Bindder Wall	15.9 (1.59)	25.5 (2.55)	_		
Gestrointestinal Tract:					
Stomach Wall	75.0 (7.50)	15,3 (1,53)			
Upper Large Intestine Wall	20.4 (2.04)	36.0 (3.60)	-		
Lower Large Intestine While	18,3 (1,83)	33.0 (3.30)			
Aed Marrow	5.7 (0.57)	5.1 (0.51)	-		
feates	2.7 (0.27)	2.7 (0.27)	_		
Ovaries	6.6 (0.66)	9.0 (0.90)	_		
Thyroid	39.0 (3.90)	39,0 (3,00)	_		
Brain	4.2 (0.42)	3.6 (0.36)	_		
Nnole-Body	4.2 (0.42)	3.3 (0.33)	_		
Placenta			0.6 (0.06)		
Falus	_	-	0.5 (0.05)		

In pediatric patients, the maximum radiation datase of 186M8g (5 millicuries) of Sodium Pertectinetate TU 99m Injection administered to a nonetro (3.5 kg) for brein or blood pool maging with radianuclids anglography are shown in Table 6. In pediatric patients, an avar-age 20 minute exposure to 37 MBig (5 millicure) of Sodium Pertecherate To 99m injection following institution for direct cystography, results in an estimated absorbed molinition does of approximate 0.30 mKg (5 millicure) to the bladdor wall and 0.04 to 0.05mGy (4 to 5 mil-lirads) to the gonade.³

Table 6. Absorbed Findiation Dasas (Pediatric)

	Absorbed Radiation Doses			
Tissue	mGy/ 371/Hq	(roda/ 1mCi)	mCy/ 165MBc	(rade/ 5mCi)
Thyrold (withour perchiorate)	46.0	(4.6)	230.0	(23.0)
Thyrold (with perchlorate)	9.7	(Ó.97)	48.5	(4.85)
Large Bowel (with porchlorate)	19.0	(1.0)	95.5	(9.55)
Testars	1.0	(0,10)	5.1	(0.61)
Ovarias	2.2	(0.22)	11.Ú	(1.1D)
Whole-Body	1.5	(0.15)	7.6	(0.76)

lind (rom: Sommany of Curran) Radiation Done Subweige in Normal Humana tram 95m-Tc at So Instatus MRD Dave Sammine Report No. 3. J. Aud: Madi 17(1): 74-77, 1171, 1973. U ref. Christ and Instatus radia uschlar semigrativa. J. Unix 119: 689-680 May 1975.

Table 7, Absorbed Rediction Does from Decryoscintigraphy

	Absorbed Dose		
arget Organ	тСу/ 3.7МВq	(mræd/ 100µCi)	
ve Lens:			
il lacrimel fluid tumover is 15%/min	0.140	14.0	
If lacrimal filled turnover is 100%/min	0.022	2.2	
If drainage system is blockod	4.020	402.0	
ous Lipdy	0.011	1.1	
lvaries"	0.030	3.0	
estes"	0.000	0.9	
Thyroid	0,150	13.0	

Anaulining ne bisesege of drainage system. MIRD Down Extinuite Report No. J. J. Nucl Mod. 17,74-77, 1976

17:747.1975. HOW SUPPLIED: Bristol-Mycris Squibb Medical Intaging TECHNELITE*, Tachnolum TC 99m (Senersin: Is available in the following quantities of radioctivity: 18 5 (MOC #11994-030-10), 27.6 (NDC #11994-030-27), 37.0 (NDC #11994-030-36), 43.3 (NDC #11994-030-18), 55.5 (NDC #11994-030-40), 56.5 (NDC #11994-030-40), 125.5 (NDC #11994-030-20), 82.5 (NDC #11994-030-20), 10.6 (NDC #11994-030-40), 125.5 (NDC #11994-030-20), 82.5 (NDC #11994-030-20), 10.6 (NDC #11994-030-40), 370.0 (NDC #11994-030-20), 452.5 (NDC #11994-030-20), 555.0 GBo, (NDC #11984-030-47), 370.0 (NDC #11994-030-20), 452.5 (NDC #11994-030-00), 555.0 GBo, (NDC #11984-030-47), 370.0 (NDC #11994-030-70), 452.5 (NDC #11994-030-10), 555.0 GBo, (NDC #11984-030-47), 370.0 (NDC #1194-030-70), 452.5 (NDC #11994-030-10), 555.0 GBo, (NDC #11984-030-47), 370.0 (NDC #1194-030-70), 120.0 (NDC #1194-030-70), 370.0 (NDC #1194-030-70), 130.0 (NDC #1194-030-70), 120.0 (NDC #1194-030-70), 370.0 (NDC #1194-030-70), 120.0 (NDC #1194-030-70), 120.0 (NDC #1194-030-70), 120.0 (NDC #1194-030-70), 370.0 (NDC #1194-030-70), 120.0 (NDC #1194-70), 120.0 (NDC #1194-700-70), 120.0 (NDC #1194-700-7

- Collect Needle Seel 1 ist Eluate Collection Viel 1 ray be supplied asparatoly) Eluate Collection Viel 1 (may be supplied asparatoly) Package Insteri Package Insteric (El. 1 vol Sheid) Regestion Laberis (El. 1 vol Sheid) Notybdenum Mod9 / 1 (viry Record (optional)

First order generators are in typed with the following accessory components:

2 Eluting Shields Extra quantities of it is components may be obtained at the customer's

STORAGE: Controlled rot: " Simpletature 20* to 25*C (68* to 77*F) [See USF].

EXPERATION: The suprame to time of the Studium Pertechnetists To Sem Injection is not later than 12 hours offer eliution. If the eliutide is to be used to reconstitute a tit for the preparation of a Tachendum To Com scillopharmaceulicul, the tit should not be used atter 12 hours from time of Generation of the state is hours from the time of reconstitution of the kit.) The explicition date : The TECHNELITER, Technotum To Sem Generator is fourther CIEVE DOGI-MANUIACAUM.

ELUTION INSTRUCTIONS -- TOTAL ELUTION METHOD

- ELUTION I (STRUCTIONS TOTAL EDUCTION METHOD Wategroot glovos shou is bo worn oviring elution. , Pentom sil advoss shou is bo worn oviring elution. , Pentom sil advosaquari : parations asophobility. Memove alleone needle : sali from atuant chargo wolt. Disparet as redelective weeks. , Pentoms silleone needle : sali from atuant chargo wolt with a charge concercitie (such as 70% leoprocycl idoonol : work as epium of allach chargo wolt with a charge wolt will should be firmly inserted to assure : wincture of asplum. Open alution shinklicity i end insert an eluate collection vial from which the filp-off ceal has been removed. Sci 14 bits back on securely. Sweb the exposed vial septum with a has been removed. Sci 14 bits back on securely. Sweb the exposed vial septum with a
- operatoria

- seconds and can be lought checked by the appearance or buckas in the event charge vial." "MOTE: If subbles do it ; appear in the situati charge vial within 30 spoonds, either one of the vials has not been coperty placed on its needls or the aliasts vial hes no violum. Remove the dusts beit reliant with prevent vectors manage in a manage the charge vial. Reinsent the visuals categories will and if etition does not commande, take a second shyled collect (c) vial. Caestoon: Tempering is in the internal components could compremise starting the one of the charge of the visuals categories and and the title of the second second shyled collect (c) vial. Caestoon: Tempering is in the internal components could compremise starting and becond shyle among the visuals could not be diamentian. To assume proper yist; and functioning, etuition must proposed to campletion as ev-denced by emptying is the charge wial. Allow generator should not be allow for all east. Similar the collocity has be in drained, or for a total of 6 minutes. After visuals has non sympleted, remove shield containing the collocitor vial. Obtain readile scal vial and in an owner the collect needle. The charm vial is startle and should after the collocity in the ending is a collection vial. Obtain a part will upon into listing the next shield cantaining the collociton vial. Obtain a categories waste. "Allow events.
- 13 Fill out and ettach in a spropriate supplied pressure sensitive radioactivity labels to the elution sheld containing the Nied elusie collection visit. Do not use nin elusie of the featment in Te Sheld (in person elusie collection visit. Do not use nin elusie of elution (12 hours).
- Ise a theided syringe then introducing the Sodium Penechnetate To Sim solution Into mixing vitat.
 Maintain adaptuate shit (fing during the life of the radioactive preparation by using a lead view pielod and cor. 1, and use a shiplicod syringe for withdrawing and intertime the
- DIBOSTATION.

Propersion. (SSAY INSTRUCTIONS FOR THE TECHNELITI", TECHNELTIUM TO 99m GENERATOR ELUATE The TECHNELITE', Tochna (in To 99m Generator Ekale may be assayed using an ioniza-tion chamber does calibrati - The menutacuter's instructions for benaltion of the does only brater should be tolloword - (maguerreni of Technetium To 99m and Molybdonum Mog9 activity in the generator etc. 4b. The Molybdonum SP/Technetium To 99m and Molybdonum Mog9 activity in the generator etc. 4b. The Molybdonum SP/Technetium The State specific barrier to administration, and from that area to advised be optimistration, and from that area to advised be optimised at the State should be the of a size in the advised barrier and from the state should be to the line of a size in the advised barrier and the same should be the not more of the size of the size and the state should be of the size of the

RADION : TRIC MOLYBORNUM TEST PROCEDURE

This method is based on : In fact that many Technology TCSOCOUNC shielded and only this man analysis technology for 99m radiation can be readily shielded and only this mann analysis gentma rays. From Molybdenum Molybdenum Mol99 sources thibting Cestum Ca 137 disabled in hard district is supplied upon request in the geomatry of the Technetium To 99m Elusite Collection Val, The online ebute may be assessed to 1 is yobdeniam Mol99 betwirk as a follows:

- - μ Ci simulatori Mo99 × net opm Eluele

uCi Malybdonum 📼 🛄 hit opm simulated Mo99 relevance source Mo99 (Iour)

birde the number by ta mCi of Tachnatium 70 99m, This result (µCi Mo99/mCi Tc 99m) can be converter to MGq M099/MBq TC 99m by multiplying by 10⁴. The U.S. Pharmacopele and the ...S. Nuclear Regulatory Commission or equivalent Agreement State regulations spai ling a limit of 0.00015MBq Mo19 Mo19 and M099 per MBq of Tachnolum To 99m (0. 4.0 M099/mCi Tc 99m) at the time of administration to each tonitsq

COLORIN STRIC ALUMINUM KIN TEST PROCEDURE

U.S. Patont 5,109,160

513160-0303

Bristol-Myers Squibb Modi al Imaging, inc. offers an Aurahum fon Indextorne accessory to permit monitor 1) the subminum fon in secon studie. It is based on a colorimol-ric reaction performed on a user strip impregnated with indicator. A bolle of subminum fon summark is indicated. A bolle of subminum for a strip indicator.

senserin la negurado. Compli rel monitation is svalidoje on request. DISPOSAL: All compony is is shipped with the TECHNELITE[®], Technetium To 99-Generator should be conductive utility of the component of the state intervention of the technologies of the outper technologies and the state intervention of the disposed of into routine trash systems. The generator should be disposed with the disposed of into routine trash systems. The generator should be disposed to the disposed of into routine trash systems. The generator should be disposed of the disposed of into routine trash systems. The generator should be disposed in the disposed of into routine trash systems. The appropriate and are also with this environment of the systems of the disposed disposed alignment of by a method app: bad by the appropriate regulatory outlineity. Spent generator shipments and are also with this environment. This regionator with disposed for distribution to persons licensed pursuant to the Code of Massachuverits for the linking to 80 kMR 120.2000 for the uses listed in 105 kMR 120.522 or under equivalet in the set is 50 kMR 120.2000 for the uses listed in 105 kMR 120.523 or under equivalet in the set is be with U.S. Nuclear Regulatory Commission, an Agreement State or a Licens ty State.

Medical Imaging

331 Treble Cove Road

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March 2003



To:	Colleen Casey	Frem	Roland Sawyer	
Fiec	630-829-9782	Pagai	2 including cover	
Phone	<u> </u>	Date:	12 December 2005	
Re:	Amendment Request	CC 2		
Urgen	t For Review	Please Commont	Please Reply	Please Recycle

Colleen,

Attached is the amendment request, the hard copy is in the mail today. I appreciate the quick response and turn around and all of your assistance.

Please feel free to give me a call if there are any questions .

Thanks,

Roland Sawyer (Chip)

Manager EH&S / RSO

Maryland Heights Plant

Tyco Healthcare Mailinckrodt

314-654-7644 office / 314-267-0723 cellular

tyco Healthcare

Mallinckrodt

December 13, 2005

Materials Licensing Section U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road STE 210 Lisle, Illinois 60532-4352

RE: License 24-04206-05MD Docket Number (030-10801)

Dear Patty,

Currently in Section 7 of license 24-04206-05MD, Mallinckrodt Inc is limited to shipping DTE generators manufactured under NDA No. 17-243.

Due to a production hold at the Maryland Heights facility on DTE generators, Bristol Myers Squibb (BMS) is currently backfilling Mallinckrodt customers with generators. Two customers located in Alaska are having difficulty receiving BMS generators. This is due to BMS not having a Preferred Customer Status with Haskan Airlines. This is commonly known in the airline industry as PAL#. BMS has requested that Maryland Heights drop ship two generators per week (one to each customer) to the Haska hospitals.

This request is to amend the above listed license to include the ability to redistribute these two generators to the Alaska hospitals until Mallinckrout is back in production. Maryland Heights intends to receive the BMS generators, perform appropriate receipt surveys after breaking the security seal. Upon proper receipt, a new security shal will be applied, and Maryland Heights will remanifest the packages as the shipper. At no time will any of the manufacturers generator labeling or shipping package labeling be altered. Ad ditionally, based on the two customer's standing orders, our license limit of 19.5 Curies at time of shipment will not be exceeded.

BMS is authorized to initially distribute in accordance with a specific license issue pursuant to 10 CFR 32.72 or equivalent Agreement State regulations.

If you have any questions concerning this request please feel free to contact me at (314) 654-7644 (office) or 314-267-0723 (cell).

Sincerely

Roland E Sawyer, Manager EH&S / RSO Tyco/Healthcare/Mallinckrodt Maryland Heights Facility

Building 100