Template Provided By:

Cancer Imaging Program

National Cancer Institute

Supply Sheet for Production of [^{18}F]Fluoromisonidazole

Kit Number: **S-FMISO-_____** Expiration Date: _____ Number of kits prepared:_____

This form is provided so supplies can, if desired, be assembled ahead of the synthesis of [^{18}F]-FMISO, in multiple "kits". Kits should be stored in sealed low particle containers labeled with the kit batch number (S-FMISO-XXXX) and expiration date. Ethanol can be repackaged, aseptically, in sterile 15 mL polypropylene Falcon tubes. The kit expiration date is the earliest reagent expiration date. There must be a kit form associated with each radiosynthesis.

REAGENTS/SOLUTIONS

Reagent/Solution	Internal Tracking Number/ Compounding Record Number	Quantity
Sodium bicarbonate 4.2% solution	**SS-BIC-_____**	1(5 mL) vial
23.4% Sodium Chloride Solution, for dilution, USP (234 mg/mL)	**SS-NCC-_____**	1 vial
0.1 M K_2CO_3	**KCO2-__-_____**	> 0.5 mL
Kryptofix [2.2.2] 15 mg / 2 mL in CH_3CN	**KRYP-__-_____**	> 2.0 mL
0.5 M HCL	**HCL-__ -_____**	> 2.0 mL
water for injection, sterile USP, to clean cartridge	**SS-WFI-_____**	1 (10 mL) vial
ethanol USP absolute to clean cartridge and HPLC vial	**SS-ETH-_____**	> 6 mL

SUPPLIES

Supply Description	Internal Tracking Number/ Identification	Quantity
Sterile Syringe, 1 mL, no silicone or latex (for Vial 1 addition and ^{18}F Sep Cartridge washes)		3
Sterile Syringe, 3 mL, no silicone or latex (for Vials 2, 4, 5, 6 additions)		4
Sterile Syringe,10 mL, no silicone or latex (for H_2O / acetone additions)		2
Sterile Disposable Syringes 0.5 mL with needle for QC sample and concentrated saline		2
Sterile Disposable Syringes 3 mL for sterility samples		1
Sterile Disposable Syringes 5 mL for ethanol		1
Disposable Needles to fill vials (23 or 25G X > 2½" long work well)		5
Sterile Disposable Needles 22G or smaller		9
Sterile Vent Filter 0.2 µm Millex SLGS V25 5F (for the FX_{FN} box)	**SS-SVF-_____**	4
[^{18}F] Separation Cartridge	**SS-FSC-_____**	1
Sterilizing Filter 0.2 µm	**SS-SPF-_____**	2
Sterile Vented Filter Needle (for product vial)	**SS-VFN-_____**	1
Empty Sterile Vial, 10 to 30 mL (product vial)	**SS-SBV-_____**	1
Alcohol Swabs		qs
Polypropylene 16 X 100 mm sterile Falcon tubes		1
Disposable test tube (~16 X 150 mm) to collect wash waste	**Not Applicable**	1

Prepared By: _____**Date:** _____ **Checked By:** _____**Date:**_____

Signature *Signature*

FMISO Supplies (Kit) Preparation Form Version: **0** ***GEN-Form S-FMISO***

Author: _____**Date:**_____

Regulatory Approval: _____**Date:**_____

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