Template Provided By:

Cancer Imaging Program

National Cancer Institute

Preparation of GC Dilutions from Standard Solution for [^{18}F]FMISO

(Refer to GEN-Q212)

GCFMISO-__- _____ GCFMISO Expiration Date: _____ Date Dilution Prepared: _____

Gas Chromatography Standard:

Acetone	0.5 g/ 10 mL	50 mg/mL	5%	50,000 ppm
Acetonitrile	0.04 g/ 10 mL	4 mg/mL	0.4%	4,000 ppm

Dilutions:

Dilution	Solution	Volume of Solution (mL)	Diluent	Volume of Diluent (mL)	Volume of Final Solution (mL)
½	GCFMISO-L		W5ETH-_____		
¼	½ Solution				
⅛	¼ Solution				
1/16	⅛ Solution				

Label each Vial of GC Standards

Dilution	Gas Chromatography Standard		
½	Acetone	25 mg/mL	0.25%
	Acetonitrile	2 mg/mL	0.02%
¼	Acetone	12.5 mg/mL	0.125%
	Acetonitrile	1.0 mg/mL	0.01%
⅛	Acetone	6.25 mg/mL	0.0625%
	Acetonitrile	0.50 mg/mL	0.005%
1/16	Acetone	3.13 mg/mL	0.0313%
	Acetonitrile	0.25 mg/mL	0.0025%

Prepared By: _____Date: _____

Signature

QC Review: _____ Date: _____

Signature

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