Template Provided By:

Cancer Imaging Program

National Cancer Institute

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

(Refer to GEN-Q212)

GCFES-__- _____ GCFES Expiration Date: _____ Date Dilution Prepared: _____
(*GC dilutions expire 1 week after made if kept tightly capped and stored in the refrigerator)*

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	GCFES-L		ETH50-_____		
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%	25,000 ppm
	Acetonitrile	2 mg/mL	0.020%	2,000 ppm
¼	Acetone	12.5 mg/mL	0.125%	12,500 ppm
	Acetonitrile	1.0 mg/mL	0.010%	1,000 ppm
⅛	Acetone	6.25 mg/mL	0.0625%	6,250 ppm
	Acetonitrile	0.50 mg/mL	0.0050%	500 ppm
$^{1}/_{16}$	Acetone	3.13 mg/mL	0.0313%	3,125 ppm
	Acetonitrile	0.25 mg/mL	0.0025%	250 ppm

Prepared By: _____**Date:** _____
Signature

QC Review: _____ **Date:** _____
Signature

Author:_____**Date:**_____

Regulatory Approval:_____**Date:**_____

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