Preparation of FLT Standard Solution and Dilutions Form

(Refer to GEN-Q119)

SS-FLT-_____ **Expiration Date: _____**

Date of Standard/ Dilution Preparation: _____

Preparation of FLT Stock Solution (if applicable on this date):
FLT weight of paper and FLT_____ g
Weight of paper (after adding FLT to flask) _____ g
Weight of FLT added to flask _____ mg

Add 2 mL of HPLC grade water and 4 mL of HPLC grade methanol to the FLT crystals in the 10 mL volumetric flask. Swirl the flask to mix the contents and verify that the FLT is dissolved. Then add HPLC grade water to the volumetric 10 mL mark. Fully mix the contents of the volumetric flask. Verified by_____ (initials).

Final concentration of FLT stock solution, _____ mg/mL

SS-HBS-_____ used SS-MTH- _____used SS-HGW-_____used

Preparation of FLT Dilutions of Stock Solution for Analytical HPLC

FLT Solution	Dilution	FLT Solution to Use	mL of FLT Added (wanted)	mL of HBS	Approximate Concentration (µg/mL)
Stock	**none**	**N/A**			1,000
A	**1/10**	**Stock**	(0.50)	(4.5)	100.0
B	**1/100**	**A**	(0.50)	(4.5)	10.0
C	**1/200**	**B**	(1.00)	(1.00)	5.00
D	**1/400**	**C**	(1.00)	(1.00)	2.50
E	**1/800**	**D**	(1.00)	(1.00)	1.25
F	**1/1600**	**E**	(1.00)	(1.00)	0.63
G	**1/3200**	**F**	(1.00)	(1.00)	0.31

Label each Vial of FLT Diluted Solution Standards with "FLT solution" the final concentration, volume, date prepared, date expires, initials.

Prepared By: _____Date: _____
Signature

QC Review: _____ Date: _____
Signature

Cancer Imaging Program, *Confidential--Use and restriction of this document is set forth in Transfer Agreement executed with the National Cancer Institute (NCI).*