

**Template**  
**“Insert Your Institution Information Here”**

**Preparation of DCFBC Standard Solution and Dilutions Form**

(Refer to Leidos-Q324)

STDDCFBC-\_\_\_\_\_ SS-DCFBC-\_\_\_\_\_ Expiration Date: \_\_\_\_\_  
 (if using old FES stock solution, enter the STDDCFBC- batch number above).

Date of Standard/ Dilution Preparation: \_\_\_\_\_ Lot ACN50-\_\_\_\_\_ used

**Preparation of DCFBC Stock Solution** (if applicable on this date):

Weigh a piece of weighing paper \_\_\_\_\_ g (A)

Weigh out 0.001 g (1 mg) of DCFBC: weight of paper and DCFBC \_\_\_\_\_ g (B)

Add the DCFBC to a clean dry 10 mL glass bottle.

Reweight the paper (after adding DCFBC to flask) \_\_\_\_\_ g (C)

Weight of DCFBC added to flask \_\_\_\_\_ mg (= (B minus C) times 1000)

Add 4.35 mL (ACN50-L) solution to the 10 ml glass bottle to get final concentration of 230 µg/mL. Swirl to dissolve the DCFBC. \_\_\_\_\_ (initials)

Label the bottle or final container with the following: STDDCFBC-\_\_\_\_\_ (stock solution)  
 \_\_\_\_\_ mg/mL Expiration \_\_\_\_\_.

Date prepared: \_\_\_\_\_ Made by: \_\_\_\_\_.

Stock solution expires 6 months after preparation if stored in the freezer in a tightly capped cryogenic vial. Fully defrost stock solution and mix before making dilutions.

**Suggested Dilutions of DCFBC Stock Solution for Analytical HPLC**

DCFBC Solution	Dilution	DCFBC Solution to Use	µL of DCFBC to add	mL of ACN50 to add	Approximate Concentration (µg/mL)	Real Concentration (µg/mL)
Stock	none	N/A	from above	from above	230	
A	1/10	Stock	(100)	(0.9)	23	
B	1/20	Stock	(50)	(0.95)	11.5	
C	1/33.3	Stock	(30)	(0.97)	6.9	
D	1/66.7	Stock	(15)	(0.985)	3.45	
E	1/100	Stock	(10)	(0.99)	2.3	
F	1/200	Stock	(5)	(0.995)	1.15	
G	1/500	Stock	(2)	(0.998)	0.46	
H	1/1000	Stock	(1)	(0.999)	0.23	

Label each Vial of DCFBC Diluted Solution Standards with “DCFBC solution” the final concentration, volume, date prepared, date expires, initials. The diluted DCFBC standards are good for 1 month when stored in the refrigerator.

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

*Signature*

QC Review: \_\_\_\_\_ Date: \_\_\_\_\_

*Signature*

DCFBC Standard and Dilutions Preparation Form  
 Form Q324

Version: V1

Effective Date: 12/11/2013 \_\_\_\_\_

Supersedes:

Author: \_\_\_\_\_ Date: 12/11/2013 \_\_\_\_\_.

Regulatory Approval: \_\_\_\_\_ Date: \_\_\_\_\_.