

Step Spiking procedure

- 1 Prepare 1mg/mL of Stock Solution by adjusting the NIST material.  
e.g. the case of using MoniQA (protein content is 35.39%)  
Mix 20.5mg of MQA material and 7.25mL of PBS  
This comes from,  $20.5\text{mg} / 7.25\text{ mL} \times 0.3539 = 1\text{mg/mL}$

- 2 After mixing NIST material and PBS, use a rotator and incubate for 30min at room temperature.

- 3 Dilute the stock solution by PBS and prepare a spiking solution.  
e.g. the case for preparing 50, 25, 10µg/mL

Target conc. [µg/mL]	50	25	10	5
1mg/mL stock solution [µL]	15			
PBS [µL]	285	150	150	100
		150	100	100
Total volume [µL]	300	300	250	200
Estimated content in 1g of sample when adding 100µL of spiking solution [ppm]	5	2.5	1	0.5

- 4 Add the 100µL of spiking solution to 1g of food matrix, then following an extraction procedure written in the insert.