

## FOLATE & VITAMIN B12 SAMPLE PREPARATION

### PURPOSE:

The following illustrated steps were created to help train technicians and simplify the process of sample preparation

### SAMPLES:

Prepare all patients, calibrators and controls before use in the assay

### SAMPLE STABILITY:

Fresh serum can be kept up to 5 days at 2-8°C; for longer periods, please freeze at -20°C or lower. Extracted sample can be used within 8 hours since the extraction, when maintained at 4°C.

## EXTRACTION STEPS

### STEP 1

- Add 100µl of sample (patient, calibrator or control) into a tube
- Hint: touch side of tube with pipette while dispensing at an angle near the bottom of the tube
- Hint: prepare all samples



### STEP 2

- Preparation of Extraction Reagent: mix the Stabilizing Agent and the Releasing Agent to prepare a 1/40 solution (Stabilizing/Releasing).  
Ex. For 6 samples, mix 10µl of Stabilizing Agent and 390µl of Releasing Agent
- Add 50µl of Extraction Reagent into sample tubes
- Hint: touch side of tube with pipette while dispensing at an angle slightly above the sample (do not touch the sample to avoid contamination)
- Mix on vortex 1-2 seconds using multiple touch technique (3 x 1-2 seconds), immediately after the addition of the Extraction Reagent
- Hint: mix before moving onto the next tube



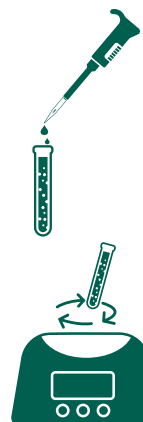
### STEP 3

- Incubate 15 minutes at room temperature



### STEP 4

- Add 50µl of Neutralizing Agent into sample tubes
- Hint: touch side of tube with pipette while dispensing at an angle slightly above the sample (do not touch the sample to avoid contamination)
- Mix on vortex 1-2 seconds using multiple touch technique (3 x 1-2 seconds), immediately after adding the Neutralizing Agent
- Hint: mix before moving onto the next tube



### STEP 5

- Use prepared samples accordingly to IFU procedure