

## 2023 FROZEN CALIBRATION STANDARDS HANDLING INSTRUCTIONS

In the interest of providing a high quality affordable standard, the standard you are receiving has been flash frozen. Use the instructions below to ensure proper care and use of these flash frozen standards.

## **Sample Reception**

- 1. Verify that you have received your entire order intact and please promptly report any problems to DQCI Customer Service dqcicustomerservice@us4.eurofins-info.com.
  - a. We will replace standards damaged in shipping at no charge, with the exception of large volume samples, special orders, and custom standards.
- 2. Immediately place the standards in a freezer until use.
- 3. Each shipment includes a Temperature Control (TC) vial. Please do not discard this TC vial. The TC vial allows you to monitor temperature during the thawing procedure.

## **Use of Flash Frozen Standard Samples:**

\*Failure to follow these guidelines will lead to inconsistent results that may not match published values.\*

- 1. When ready to use the samples, warm all standards in a water bath (preferably circulating) to a temperature of 38-40°C before testing. Do not let samples thaw at room temperature.
- 2. Warm standards in a water bath for 45min 1hr 15min.
- 3. Use the TC sample to determine when the samples have reached adequate temperature for analysis (at least 38°C). Do not allow samples to remain in the water bath more than 30 minutes after reaching an appropriate temperature.
- 4. After warming the standards, invert them a few times to mix. Invert them gently to avoid incorporating air.
- 5. Depending on the instrument, the sample volume of each vial is sufficient for multiple draws.
- 6. Calibrate the instrument as directed by your instrument provider. Verify the calibration by using the duplicate set.
- 7. Discard standards after analysis. Standards will not maintain quality if retained in freezer or refrigerator after use.