

## IN-HOUSE PROCEDURE # \_\_\_\_\_

### PROCEDURE FOR STANDARDIZING PYCNOMETER (RICE POT)

Item:

Pycnometer (Rice Pot)

Purpose:

This method provides instructions for standardizing the submerged mass of the theoretical maximum specific gravity pycnometer/bowl (Rice Pot).

Inspection Equipment Required:

1. Water bath at  $25 \pm 1$  °C ( $77 \pm 2$  °F)
2. Scale readable to the nearest 0.1 g

Tolerance:

Equipment shall meet the dimensional tolerances specified in the applicable test method.

Procedure:

1. Immerse an empty pycnometer/bowl in water at  $25 \pm 1$  °C ( $77 \pm 2$  °F) for  $10 \pm 1$  minute.
2. Determine and record the mass of the bowl.
3. Repeat steps 1 and 2 to generate a 2<sup>nd</sup> mass
4. Repeat steps 1 and 2 to generate a 3<sup>rd</sup> mass
5. If the 3 masses do not differ by more than 0.3 g, calculate the average and use this value as the standardized submerged pycnometer/bowl mass.
6. If the variation of the 3 masses exceeds 0.3 g, take corrective action and repeat the standardization procedure.