

## **SOP: Calibration of Ohaus Pioneer Electronic Balance**

### **Approvals:**

Preparer: Isaiah Dennis

Date: 14DEC21

Reviewer: Robin Zuck

Date: 20DEC21

Reviewer: Dr. Maggie Bryans

Date: 17JAN22

### **1.Purpose:**

1.1. Calibration of Ohaus Pioneer Electronic Balance

### **2.Scope:**

2.1. Applies to the calibration of the Ohaus Pioneer Balance using standard mass.

### **3.Summary of methods:**

3.1. One point calibration with a Class 2 standard mass.

### **4.References:**

4.1. Pioneer PX Series Balances Instruction Manual

### **5.Definitions:** N/A

### **6.Precautions:**

6.1. Gloves, a lab coat, and protective eyewear should be worn.

6.2. Do not handle the Mass Standards with ungloved hands, use tweezers when handling mass standards.

### **7.Responsibilities:**

7.1. It is the responsibility of the course instructor/lab assistant to ensure that this SOP is performed as directed and to update the procedure when necessary.

7.2. It is the responsibility of the students/technicians to follow the SOP as described and to inform the instructor about any deviations or problems that may occur while performing the procedure.

### **8.Materials:**

8.1. 100g Class 2 standard mass for external calibration

8.2. Tweezers

8.3. Soft cleaning brush

8.4. Ohaus Pioneer Electronic Balance

### **9.Procedure:**

9.1. Single point Calibration of Ohaus Pioneer Balance

9.1.1. Check the inside of the balance to make sure that there is no chemical residue on the pan or surrounding area. Ensure that the pan is properly placed on the base. If needed, adjust the pan to make sure it rests on the flat on the balance, use a brush to wipe off any excess material from the pan and inside of the balance.

9.1.2. Check the level indicator to see if the bubble is in the center, if it is not, adjust by turning the dials on the feet of the balance.

9.1.3. Press and hold the **Tare** button below balance display for about 1 second. A series of dashes and the words "MENU" on the right and "Calibration" on the bottom left will be displayed. If the display does not show Calibration, press the **No** (Print) button below the display until "Calibration" is displayed on the bottom of the screen. When "Calibration" is displayed press the **Yes** (Zero) button below the display to enter the calibration menu.

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- 9.1.4. The display will show a series of dashes, and “CAL” on the right. Press the **No** button until “Span Cal” is displayed on the bottom of the display. Press the **Yes** button to select Span Cal.
- 9.1.5. The balance will display a specific weight (usually 150.000g) to be placed on the balance. If the weight displayed is not 100g press the **No** button until 100g is displayed. When the weight specified is 100g press the **Yes** button.
- 9.1.6. Using tweezers carefully place the 100g standard mass on the balance pan.
- 9.1.7. When the machine displays, “Remove Weights” carefully return the weight to its container.
- 9.1.8. When the calibration is completed the display will read “Calibration done”. Press the **Exit** button below the display to exit calibration mode.
- 9.1.9. The balance is now ready for use.

#### 10. History:

Revision Number	Effective Date	Preparer	Description of Change
0		Isaiah Dennis	Initial release