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JASCO CERTIFIED OPTICAL ROTATION PLATE    N°J102/2023

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JASCO Rotation Plate are certified on a Jasco P-2000 Series Polarimeter, utilizing Na d-line emission with a 589 nm bandpass filter, which has been calibrated with NIST certified sucrose (SRM-17g), which is the NIST primary standard for Optical Rotation.

For all Rotation Plates, the accuracy is  $\pm 5\%$ , for temperatures between 20°C and 26°C.

Rotation Plates should be measured with 8mm Aperture and with the index at top and pointed toward the light source (to the left), or otherwise as indicated on the plate.

The expiration data is, as noted below, is 5 years from the date of validation.

|                       |                          |
|-----------------------|--------------------------|
| <b>TAG:</b>           | <b>PO-04</b>             |
| <b>SERIAL NUMBER:</b> | <b>QPA-848</b>           |
| <b>ROTATION</b>       | <b>Angle: + 17.2954°</b> |
| <b>SUGAR VALUE</b>    | <b>°Z: + 49.9492</b>     |

Calibrated by: \_\_\_\_\_ Roberto Cruz

Date Certified: \_\_\_\_\_ March 02, 2023

Expiration Date: \_\_\_\_\_ March 02, 2028

Roberto  
Cruz

Digitally signed by Roberto Cruz  
DN: cn=Roberto Cruz, o=Jasco,  
ou=Service,  
email=rcruz@jasco.com.br, c=US  
Date: 2023.03.02 14:49:32 -03'00'