
Particle Size & Shape Control Assay Sheet

Glass Spheres Control (242 μm nominal)

LOT #: 06082021

EXPIRATION DATE: 13-May-2024



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Sample Description

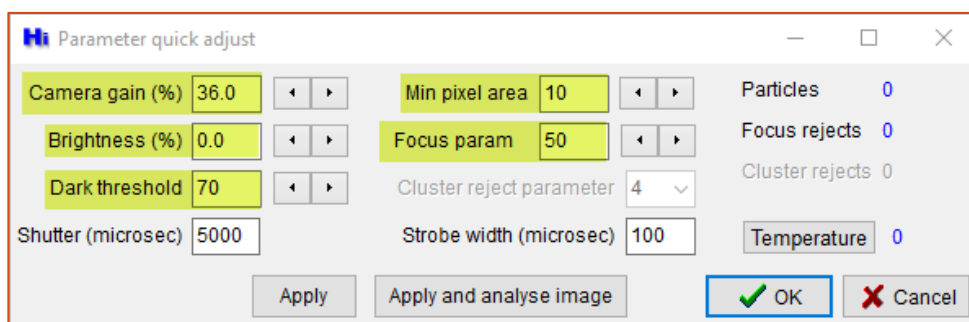
This Particle Size & Shape Control Material is a dry glass sphere with a controlled particle size reported through the Equivalent Circular Area Diameter (ECA Diameter) measure. The ECA Diameter reports particle size assuming that the particle is circular or spherical in shape. The nominal size (Mode) for this control sample is 242 μm .

Sample running instructions:

It is recommended that the Control be suspended in water prior to analyzing in the Particle Size & Shape Analyzer.

- Select the **Image** tab and click on the icon  (Parameters quick adjust)
- Enter the following Image Analysis Parameters into the software:

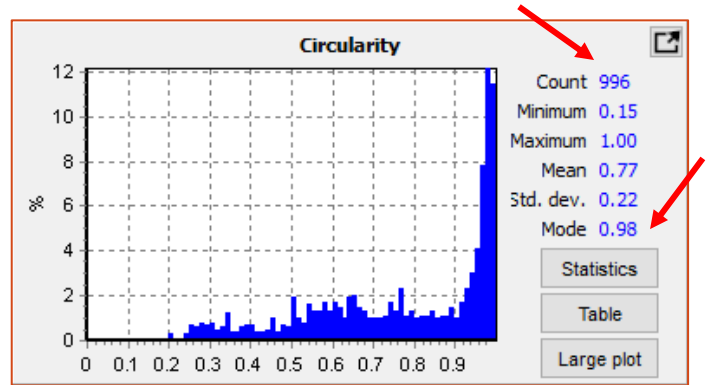
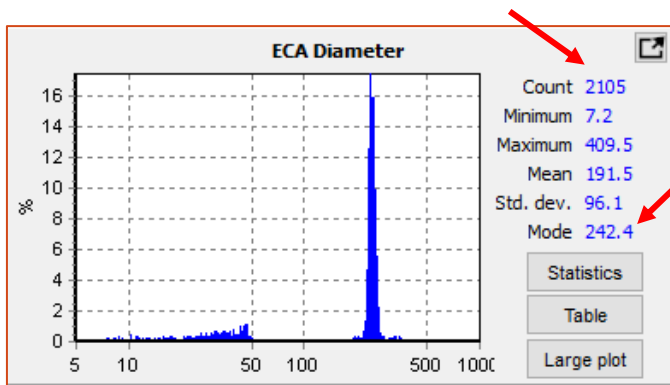
| | |
|----------------|------|
| Camera Gain | 36 % |
| Brightness | 0 % |
| Dark Threshold | 70 |
| Min Pixel Area | 10 |
| Focus param | 50 |



- Click on **Apply**, then **OK**.

Results:

Below is a histogram and data showing the ECA Diameter in Volume Weighted distribution as well as Circularity.



| <u>Description</u> | <u>Results</u> |
|------------------------------|--|
| Measurement type | ECA Diameter/Circularity – Volume Weighted |
| Expected Size Results | MODE: 242.40 μm +/- 6% |
| Expected Circularity results | MODE RANGE: min 0.920 - max 1.000 |
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