



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 858-4800
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Attn.: Bill Wingfield
AG Essence, Inc.
1601-C Overbrook Road
Richmond, VA 23220
techsupport@agessence.com
Phone: (804) 690-5042

EMSL Order ID.: 361900813
Sample(s) Received: 3/26/2019
Date of Reporting: 4/9/2019
Date Printed: 4/9/2019
Reported By: E. Mirica

- Laboratory Report -

Project: Ag Particle Size Distribution Testing

Procurement of Samples and Analytical Overview:

The samples (two, liquid) arrived at EMSL Analytical (Cinnaminson, NJ) on March 26, 2019. The samples were submitted for particle size analysis. The data reported herein has been obtained using the following equipment and methodologies.

Methods & Equipment: **Dynamic Light Scattering Method (DLS)-Horiba SZ 100Z**

Analyzed by:

Daniel Macready
Materials Science Engineer

April 8, 2019

Date

Reviewed/Approved by :

Eugenia Mirica, Ph.D.
Laboratory Manager

April 9, 2019

Date



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Results:

| | |
|--|----------------------------|
| EMSL Sample Number | 361900813-0001 |
| Customer Sample Number | Lot C22F19L |
| Customer Sample Description | Chelated Ag 200 ppm |
| Measurement | Result |
| PDI (0 = monodisperse, 1 = polydisperse) | 0 |
| Lower level cut off | 64.5 nm |
| Number weighted Median, X50,0 | 71.8 nm |

| | |
|--|----------------------------|
| EMSL Sample Number | 361900813-0002 |
| Customer Sample Number | Lot C23G19L |
| Customer Sample Description | Chitosan Ag 200 ppm |
| Measurement | Result |
| PDI (0 = monodisperse, 1 = polydisperse) | 0 |
| Lower level cut off | 119 nm |
| Number weighted Median, X50,0 | 191 nm |