



E A S T E R N I N S T R U M E N T S



CentriFlow®

# Material Test Report

Soy Flour



CentriFlow®

|                 |                           |                                |                        |
|-----------------|---------------------------|--------------------------------|------------------------|
| Date Tested:    | May 17, 2004              | Temperature:                   | Ambient (78°F/25.6°C)  |
| Technician:     | Alan Norman               | Particle Size:                 | 0.001" to 0.01"        |
| Test Location:  | Eastern Instruments       | Flowability:                   | High                   |
| CFM Model:      | 6" Type II CentriFlow®    | Cohesiveness:                  | Moderate               |
| Meter Capacity: | 6.75 ft <sup>3</sup> /min | Density (lb/ft <sup>3</sup> ): | 30 lbs/ft <sup>3</sup> |
| Feed System:    | Screw Feeder              | Inhibit Setting:               | 0.200 Volts            |



| Test #1  |               | Mass Flow Rate = 4,000 lb/hr |                |              |  |  |  |         |  |
|--|---------------|------------------------------|----------------|--------------|--|--|--|---------|--|
| Run #  | Actual Weight | Metered Weight               | Actual/Metered | Delta Weight |  |  |  | % Error |  |
| 1  | 15.98         | 15.94                        | 1.003          | -0.04        |  |  |  | -0.25%  |  |
| 2  | 16.06         | 16.13                        | 0.996          | 0.07         |  |  |  | 0.44%   |  |
| 3  | 14.70         | 14.65                        | 1.003          | -0.05        |  |  |  | -0.34%  |  |
| 4  | 14.38         | 14.33                        | 1.003          | -0.05        |  |  |  | -0.35%  |  |
| 5  | 14.42         | 14.45                        | 0.998          | 0.03         |  |  |  | 0.21%   |  |
| Average:   |               |                              | 1.001          |              |  |  |  |         |  |
| STD:   |               |                              | 0.00359        |              |  |  |  |         |  |
| % STD:   |               |                              | 0.36%          |              |  |  |  |         |  |
| Additional Comments: Tested using a 6" CentriFlow® Type II Meter equipped with Vibraweigh®. Run times were 20 seconds per batch. |               |                              |                |              |  |  |  |         |  |

### Accuracy Statement:

"The CentriFlow® Meter will provide accuracy to within  $\pm 0.50\%$  of reading when operating within  $\pm 10\%$  of the calibrated flow rate, as long as the flow rate is within the operational range of the meter."