



**Dave Heineman**  
Governor

# State of Nebraska

DEPARTMENT OF AGRICULTURE  
**GREGORY A. IBACH**  
Director

*Nebraska Standards Laboratory  
3721 West Cuming Street  
Lincoln, NE 68524*

## **CERTIFICATION FOR STANDARDS OF MEASUREMENT**

**Agency:** Food Safety & Consumer Protection  
Area 30

**Date:** 3/31/2014  
**Agency ID:** 30  
**NE Cert No:** 20140029  
**P.O. No:**

**Submitted By:** Jeff Saathoff

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
5 gal	00-16623-01	1	VL	A
5 gal	00-16623-02	1	VL	A
5 gal	00-16623-03	1	VL	A
5 gal	40702C	1	VL	A
5 gal	40702D	1	VL	A
4 kg	6	1	4	A
2 lb	7A73	1	F	A
2 lb	7A73	2	F	A
2 lb	7A73	3	F	A
2 lb	7A73	4	F	A
2 lb	7A73	5	F	A
2 lb	7A73	6	F	A
2 lb	7A73	7	F	A
2 lb	7A73	8	F	A
2 lb	7A73	9	F	A
2 lb	7A73	10	F	A
2 lb	7A73	11	F	A
2 lb	7A73	12	F	A
2 lb	7A73	13	F	A
2 lb	7A73	14	F	A
1 lb	7A73	15	F	A
1 lb	7A73	16	F	A
8 oz	7A73	17	F	A
4 oz	7A73	18	F	A
2 oz	7A73	19	F	A

**Department of Agriculture, 301 Centennial Mall South**  
**Web Site: [www.agr.ne.gov](http://www.agr.ne.gov)**

Administration  
P.O. Box 94947  
Lincoln, NE 68509-4947  
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FAX: (402) 471-6876

Agriculture Laboratories  
3703 South 14<sup>th</sup> Street  
Lincoln, NE 68502-5399  
(402) 471-2176  
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Bureau of Animal Industry  
P.O. Box 94987  
Lincoln, NE 68509-4787  
(402) 471-2351  
FAX: (402) 471-6893

Bureau of Dairies & Foods  
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Bureau of Plant Industry  
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P.O. Box 94757  
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(402) 471-4292  
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Submitted By: Jeff Saathoff

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
1 oz	7A73	20	F	A
0.5 oz	7A73	21	F	A
0.25 oz	7A73	22	F	A
0.125 oz	7A73	23	F	A
0.0625 oz	7A73	24	F	A
0.0625 oz*	7A73	25	F	A
0.3 lb	9-OPI-5	14	F	A
0.2 lb	9-OPI-5	15	F	A
0.1 lb	9-OPI-5	16	F	A
0.05 lb	9-OPI-5	17	F	A
0.03 lb	9-OPI-5	18	F	A
0.02 lb	9-OPI-5	19	F	A
0.01 lb	9-OPI-5	20	F	A
0.005 lb	9-OPI-5	21	F	A
0.003 lb	9-OPI-5	22	F	A
0.002 lb	9-OPI-5	23	F	A
0.001 lb	9-OPI-5	24	F	A
0.001 lb*	9-OPI-5	25	F	A
15 lb	WM15-1	1	6	A
15 lb	WM15-2	1	6	A
25 lb	WM25-132	1	F	A
25 lb	WM25-133	1	F	A
25 lb	WM25-135	1	F	A
25 lb	WM25-136	1	F	A
25 lb	WM25-137	1	F	A
25 lb	WM25-138	1	F	A
25 lb	WM25-139	1	F	A
25 lb	WM25-140	1	F	A
25 lb	WM25-22	1	F	A
25 lb	WM25-26	1	F	A
25 lb	WM25-31	1	F	A
25 lb	WM25-34	1	F	A
25 lb	WM25-35	1	F	A
25 lb	WM25-41	1	F	A
25 lb	WM25-54	1	F	A
25 lb	WM25-60	1	F	A

Submitted By: Jeff Saathoff

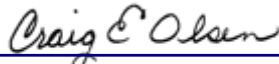
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Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
25 lb	WM25-61	1	F	A
25 lb	WM25-62	1	F	A
25 lb	WM25-63	1	F	A
25 lb	WM25-64	1	F	A
8 oz	WM-30-1	1	F	A
300 g	WM-G89-2	1	4	A
200 g	WM-G89-2	2	4	A
100 g	WM-G89-2	3	4	A
50 g	WM-G89-2	4	4	A
30 g	WM-G89-2	5	4	A
20 g	WM-G89-2	6	4	A
10 g	WM-G89-2	7	4	A
5 g	WM-G89-2	8	4	A
3 g	WM-G89-2	9	4	A
2 g	WM-G89-2	10	4	A
1 g	WM-G89-2	11	4	A
500 mg	WM-G89-2	12	4	A
200 mg	WM-G89-2	13	4	A
200 mg*	WM-G89-2	14	4	A
100 mg	WM-G89-2	15	4	A
50 mg	WM-G89-2	16	4	A
20 mg	WM-G89-2	17	4	A
20 mg*	WM-G89-2	18	4	A
10 mg	WM-G89-2	19	4	A
5 mg	WM-G89-2	20	4	A
2 mg	WM-G89-2	21	4	A
2 mg*	WM-G89-2	22	4	A
1 mg	WM-G89-2	23	4	A

These field standards have been compared with our reference standards and found to be within the tolerances for their class, or condemned, as prescribed by the National Institute of Standards and Technology. These field standards also meet the required specifications.

The reference standards used are traceable to the National Institute of Standards and Technology (NIST). Our traceability is maintained through control charts, regional inter-comparisons and periodic recertifications. This certificate is issued by the Nebraska Department of Agriculture / Division of Weights and Measures. Reproduction of this certificate must include the entire document (including all attached papers).

- See 'Test Results' attached  
 See report/letter attached

  
\_\_\_\_\_  
Craig E. Olsen  
Nebraska State Metrologist

Nebraska Standards Laboratory  
3721 West Cuming Street  
Lincoln, NE 68524  
(402) 471-2087

**SOP 19 - Volume Transfer Test Results**

Agency ID: 30

Agency: Food Safety & Consumer Protection  
Area 30

Form No.: NE03LF12-R00

NE Cert No: 20140029

Date: 3/31/2014

P.O. No:

Submitted By: Jeff Saathoff

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Serial #: 00-16623-01  
Retest #: 0  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	46.9 °F	0.999831	0 in3

**Test Measure Information**

Water Temperature: 46.9 °F  
Water Density: 0.999831 g/cm<sup>3</sup>  
Scale Reading: -0.1 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Serial #: 00-16623-01  
Retest #: 1  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.3 °F	0.999883	0 in3

**Test Measure Information**

Water Temperature: 45.3 °F  
Water Density: 0.999883 g/cm<sup>3</sup>  
Scale Reading: -0.1 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Serial #: 00-16623-02  
Retest #: 0  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.9 °F	0.999864	0 in3

**Test Measure Information**

Water Temperature: 45.9 °F  
Water Density: 0.999864 g/cm<sup>3</sup>  
Scale Reading: -0.1 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Serial #: 00-16623-02  
Retest #: 1  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	44.7 °F	0.999899	0 in3

**Test Measure Information**

Water Temperature: 44.7 °F  
Water Density: 0.999899 g/cm<sup>3</sup>  
Scale Reading: -0.1 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Serial #: 00-16623-03  
Retest #: 0  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	49.3 °F	0.999732	0 in3

**Test Measure Information**

Water Temperature: 49.3 °F  
Water Density: 0.999732 g/cm<sup>3</sup>  
Scale Reading: 0 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*



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Serial #: 00-16623-03  
Retest #: 1  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	47.4 °F	0.999812	0 in3

**Test Measure Information**

Water Temperature: 47.4 °F  
Water Density: 0.999812 g/cm<sup>3</sup>  
Scale Reading: 0 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Serial #: 40702C  
Retest #: 0  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	47.5 °F	0.999808	0 in3

**Test Measure Information**

Water Temperature: 47.7 °F  
Water Density: 0.999808 g/cm<sup>3</sup>  
Scale Reading: -0.1 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Lincoln, NE 68524  
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**SOP 19 - Volume Transfer Test Results**

Agency ID: 30

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Serial #: 40702C  
Retest #: 1  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	46.1 °F	0.999858	0 in3

**Test Measure Information**

Water Temperature: 46.4 °F  
Water Density: 0.999858 g/cm<sup>3</sup>  
Scale Reading: -0.2 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0000 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Lincoln, NE 68524  
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**SOP 19 - Volume Transfer Test Results**

Agency ID: 30

Agency: Food Safety & Consumer Protection  
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Serial #: 40702D  
Retest #: 0  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.6 °F	0.999874	0 in3

**Test Measure Information**

Water Temperature: 46 °F  
Water Density: 0.999874 g/cm<sup>3</sup>  
Scale Reading: -0.2 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0000 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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Lincoln, NE 68524  
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**SOP 19 - Volume Transfer Test Results**

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Serial #: 40702D  
Retest #: 1  
Denomination: 5 gal  
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.  
Tolerance Class: VL  
Material: SS  
Coef of Expansion: 0.0000265 °F

**Test Data**

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.2 °F	0.999885	0 in3

**Test Measure Information**

Water Temperature: 45.4 °F  
Water Density: 0.999885 g/cm<sup>3</sup>  
Scale Reading: -0.3 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0004 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

**Nebraska Standards Laboratory**  
**3721 West Cuming Street**  
**Lincoln, NE 68524**  
**(402) 471-2087**

**SOP 8 - Modified Substitution Test Results**

Form No.: NE04LF9-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
6	1	0	4 kg	CC10000S_5kg	4kg	-0.0095918 g	0.08 g	0.0014053 g	A
7A73	1	0	2 lb	CC1201_2 lb	NSL-2-1	0.0102200 g	0.091 g	0.0006026 g	A
7A73	2	0	2 lb	CC1201_2 lb	NSL-2-1	0.0400200 g	0.091 g	0.0006026 g	A
7A73	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0684800 g	0.091 g	0.0006026 g	A
7A73	4	0	2 lb	CC1201_2 lb	NSL-2-1	0.0017200 g	0.091 g	0.0006026 g	A
7A73	5	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0908800 g	0.091 g	0.0006026 g	A
7A73	6	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0459800 g	0.091 g	0.0006026 g	A
7A73	7	0	2 lb	CC1201_2 lb	NSL-2-1	0.0225200 g	0.091 g	0.0006026 g	A
7A73	8	0	2 lb	CC1201_2 lb	NSL-2-1	0.0450200 g	0.091 g	0.0006026 g	A
7A73	9	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0783800 g	0.091 g	0.0006026 g	A
7A73	10	0	2 lb	CC1201_2 lb	NSL-2-1	0.0707200 g	0.091 g	0.0006026 g	A
7A73	11	0	2 lb	CC1201_2 lb	NSL-2-1	0.0717200 g	0.091 g	0.0006026 g	A
7A73	12	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0213800 g	0.091 g	0.0006026 g	A
7A73	13	0	2 lb	CC1201_2 lb	NSL-2-1	0.0399200 g	0.091 g	0.0006026 g	A
7A73	14	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0797800 g	0.091 g	0.0006026 g	A
7A73	15	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0432200 g	0.07 g	0.0011667 g	A
7A73	16	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0425200 g	0.07 g	0.0011667 g	A
7A73	17	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0130700 g	0.045 g	0.0008197 g	A
7A73	18	0	4 oz	CC1201_8 oz	NSL-Z	-0.0003560 g	0.023 g	0.0008180 g	A
7A73	19	0	2 oz	AT106_0.2 lb	NSL-Y	0.0004760 g	0.011 g	0.0000484 g	A
7A73	20	0	1 oz	AT106_0.2 lb	2A9-1oz	-0.0053000 g	0.0054 g	0.0000454 g	A
7A73	21	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	0.0010860 g	0.0028 g	0.0000246 g	A
7A73	22	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	0.0005870 g	0.0017 g	0.0000236 g	A
7A73	23	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	-0.0010323 g	0.0013 g	0.0000174 g	A
7A73	24	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	-0.0003407 g	0.0011 g	0.0000171 g	A
7A73	25	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	0.0007769 g	0.0011 g	0.0000171 g	A

**Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error**

**The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.**

**"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.**

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
9-OPI-5	14	0	0.3 lb	CC1201_8 oz	NSL-WK1	-0.0032420 g	0.027 g	0.0008180 g	A
9-OPI-5	15	0	0.2 lb	AT106_0.2 lb	NSL-WK2	-0.0086780 g	0.018 g	0.0000603 g	A
9-OPI-5	16	0	0.1 lb	AT106_0.2 lb	NSL-WK3	-0.0045620 g	0.0091 g	0.0000473 g	A
9-OPI-5	17	0	0.05 lb	AT106_0.05 lb	NSL-WK4	0.0025780 g	0.0045 g	0.0000275 g	A
9-OPI-5	18	0	0.03 lb	AT106_0.05 lb	NSL-WK5	0.0006230 g	0.0027 g	0.0000246 g	A
9-OPI-5	19	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0004450 g	0.0018 g	0.0000236 g	A
9-OPI-5	20	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	-0.0003122 g	0.0015 g	0.0000176 g	A
9-OPI-5	21	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0009244 g	0.0012 g	0.0000172 g	A
9-OPI-5	22	0	0.003 lb	CCE6_0.01 lb	NSL-WK9	-0.0003211 g	0.00099 g	0.0000171 g	A
9-OPI-5	23	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0002359 g	0.00087 g	0.0000168 g	A
9-OPI-5	24	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0006014 g	0.0007 g	0.0000168 g	A
9-OPI-5	25	0	0.001 lb*	CCE6_0.01 lb	NSL-WK11	-0.0000617 g	0.0007 g	0.0000168 g	A
WM15-1	1	0	15 lb	KA30-3_25lb	NEBR-STD-15	0.7256690 g	0.5 g	0.0376107 g	R
WM15-1	1	1	15 lb	KA30-3_25lb	NEBR-STD-15	0.4156690 g	0.5 g	0.0376107 g	A
WM15-2	1	0	15 lb	KA30-3_25lb	NEBR-STD-15	0.3906690 g	0.5 g	0.0376107 g	A
WM25-132	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5220000 g	1.1 g	0.0430016 g	A
WM25-133	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0830000 g	1.1 g	0.0430016 g	A
WM25-135	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8870000 g	1.1 g	0.0430016 g	A
WM25-136	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.4120000 g	1.1 g	0.0430016 g	R
WM25-136	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4820000 g	1.1 g	0.0430016 g	A
WM25-137	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0270000 g	1.1 g	0.0430016 g	A
WM25-137	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4670000 g	1.1 g	0.0430016 g	A
WM25-138	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0930000 g	1.1 g	0.0430016 g	A
WM25-139	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5870000 g	1.1 g	0.0430016 g	A
WM25-140	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8470000 g	1.1 g	0.0430016 g	A
WM25-22	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1070000 g	1.1 g	0.0430016 g	A
WM25-26	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3270000 g	1.1 g	0.0430016 g	A
WM25-31	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0830000 g	1.1 g	0.0430016 g	A
WM25-34	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4230000 g	1.1 g	0.0430016 g	A
WM25-35	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9970000 g	1.1 g	0.0430016 g	A
WM25-41	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7770000 g	1.1 g	0.0430016 g	A
WM25-54	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1930000 g	1.1 g	0.0430016 g	A
WM25-60	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0870000 g	1.1 g	0.0430016 g	A

*Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error*

*The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.*

*"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.*

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM25-60	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1870000 g	1.1 g	0.0430016 g	A
WM25-61	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2670000 g	1.1 g	0.0430016 g	R
WM25-61	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.0620000 g	1.1 g	0.0430016 g	A
WM25-62	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5870000 g	1.1 g	0.0430016 g	A
WM25-63	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0670000 g	1.1 g	0.0430016 g	A
WM25-63	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.3630000 g	1.1 g	0.0430016 g	A
WM25-64	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1470000 g	1.1 g	0.0430016 g	R
WM25-64	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4970000 g	1.1 g	0.0430016 g	A
WM-30-1	1	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0105700 g	0.045 g	0.0008197 g	A

*Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error*

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Nebraska Standards Laboratory  
3721 West Cuming Street  
Lincoln, NE 68524  
(402) 471-2087

**SOP 5 - 3-1 Weighing Design - Summary Of Test Results**

Form No.: NE04LF4-R00

Agency ID: 30  
Agency: Food Safety & Consumer Protection  
Area 30

NE Cert No: 20140029  
Date: 3/31/2014  
P.O. No:  
Observer: CEO

Submitted By: Jeff Saathoff

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
300 g	WM-G89-2	1	300.00366182	300.00274331	0.00014633	CC1201_300g	300gd
200 g	WM-G89-2	2	200.00128761	200.00067527	0.00014689	CC1201_200g	200gd
100 g	WM-G89-2	3	100.00175105	100.00144488	0.00003679	AT106_100g	100grl
50 g	WM-G89-2	4	50.00037390	50.00022082	0.00002939	AT106_50g	50grl
30 g	WM-G89-2	5	30.00067709	30.00058524	0.00002723	AT106_50g	30grl
20 g	WM-G89-2	6	20.00030122	20.00023999	0.00001571	AT106_20g	20grl
10 g	WM-G89-2	7	10.00043327	10.00040265	0.00001887	AT106_10g	10grl
5 g	WM-G89-2	8	5.00021190	5.00019659	0.00000578	CCE6_5G	5grl
3 g	WM-G89-2	9	3.00003145	3.00002226	0.00000550	CCE6_5G	3grl
2 g	WM-G89-2	10	2.00006108	2.00005496	0.00000542	CCE6_5G	2grl
1 g	WM-G89-2	11	1.00001802	1.00001496	0.00000328	CCE6_1G	1grl
500 mg	WM-G89-2	12	0.49998215	0.49998062	0.00000320	CCE6_1G	500mgrl
200 mg	WM-G89-2	13	0.19998789	0.19998728	0.00000315	CCE6_1G	200mgrl
200 mg*	WM-G89-2	14	0.19998145	0.19998084	0.00000315	CCE6_1G	200mgrl
100 mg	WM-G89-2	15	0.09992686	0.09992656	0.00000316	CCE6_100MG	100mgrl
50 mg	WM-G89-2	16	0.04999303	0.04999288	0.00000306	CCE6_100MG	50mgrl
20 mg	WM-G89-2	17	0.02001302	0.02000713	0.00000303	CCE6_100MG	20mgrl
20 mg*	WM-G89-2	18	0.02002942	0.02002352	0.00000303	CCE6_100MG	20mgrl
10 mg	WM-G89-2	19	0.00999661	0.00999367	0.00000350	CCE6_10MG	10mgrl
5 mg	WM-G89-2	20	0.00500217	0.00500070	0.00000350	CCE6_10MG	5mgrl

*Due to handling, storage and/or environmental factors, the reported values are valid only while test items are within our control. No calibration periods or intervals are given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.*

*All values are "as found" unless stated differently in an attachment to the certification.*

*The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.*

Agency ID: 30  
Agency: Food Safety & Consumer Protection  
Area 30  
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NE Cert No: 20140029  
Date: 3/31/2014  
P.O. No:  
Observer: CEO

Submitted By: Jeff Saathoff

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
2 mg	WM-G89-2	21	0.00200448	0.00200389	0.00000350	CCE6_10MG	2mgrl
2 mg*	WM-G89-2	22	0.00201544	0.00201484	0.00000350	CCE6_10MG	2mgrl
1 mg	WM-G89-2	23	0.00099708	0.00099679	0.00000351	CCE6_10MG	1mgrl

*Due to handling, storage and/or environmental factors, the reported values are valid only while test items are within our control. No calibration periods or intervals are given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.*

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Nebraska Standards Laboratory  
 3721 West Cuming Street  
 Lincoln, NE 68524  
 (402) 471-2087

**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	21.4 °C
Weight #:	1	Pressure:	752 mm/Hg
Retest #:	0	Rel Humidity:	47.5 %
Denomination:	300 g	Comparator Used:	CC1201_300g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000409 g
Eq Wt/grams:	300 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0007000 g	S: 300gd	300.000915 g	0.000058 g	7.85 g/cm3
X+Tx:	0.0035000 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0235000 g	Sc1: 300g	300.003333 g	0.000021 g	7.99 g/cm3
S+Ts+SW:	0.0209000 g	Sc2:	g	g	g/cm3
S+Ts:	0.0010000 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0041000 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0243000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0211000 g	TotSc:	300.003333 g		
X+Tx:	0.0038000 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0043000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0244000 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0240000 g				

Final Test Results

Short Term S.D.	-0.00001669 g		True Mass:	300.00366182 g
F-Test Value:	3		Conventional Mass:	300.00274331 g
F-Statistic:	0.16677723 g	*PASSED*	Mx Correction:	0.00366182 g
Sc True Mass:	300.00325143 g		CMx Correction:	0.00274331 g
Sc - NIST:	-0.00008157 g		Tolerance Class:	4
Air Density:	0.00118071 g/cm3		Tolerance:	0.006 g
Uncer of Calib:	0.00014633 g			

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
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 (402) 471-2087

**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
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NE Cert No: 20140029  
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Serial #:	WM-G89-2	Temperature:	21.6 °C
Weight #:	2	Pressure:	752.3 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	200 g	Comparator Used:	CC1201_200g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000698 g
Eq Wt/grams:	200 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000000 g	S: 200gd	200.000987 g	0.00004 g	7.85 g/cm3
X+Tx:	0.0003000 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0204000 g	Sc1: 200g	200.00251 g	0.000012 g	7.99 g/cm3
S+Ts+SW:	0.0202000 g	Sc2:	g	g	g/cm3
S+Ts:	0.0002000 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0023000 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0224000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0203000 g	TotSc:	200.00251 g		
X+Tx:	0.0007000 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0025000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0225000 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0207000 g				

Final Test Results

Short Term S.D.	0.00002353 g	True Mass:	200.00128761 g
F-Test Value:	3	Conventional Mass:	200.00067527 g
F-Statistic:	0.11370880 g	Mx Correction:	0.00128761 g
Sc True Mass:	200.00253509 g	CMx Correction:	0.00067527 g
Sc - NIST:	0.00002509 g	Tolerance Class:	4
Air Density:	0.00118037 g/cm3	Tolerance:	0.004 g
Uncer of Calib:	0.00014689 g		

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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NE Cert No: 20140029  
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Serial #:	WM-G89-2	Temperature:	21.7 °C
Weight #:	3	Pressure:	753 mm/Hg
Retest #:	0	Rel Humidity:	46.5 %
Denomination:	100 g	Comparator Used:	AT106_100g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000121 g
Eq Wt/grams:	100 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000730 g	S: 100grl	100.000145 g	0.000027 g	7.95 g/cm3
X+Tx:	0.0014730 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0214670 g	Sc1: 100gp	100.00118654 g	0.00001725 g	7.8 g/cm3
S+Ts+SW:	0.0200820 g	Sc2:	g	g	g/cm3
S+Ts:	0.0001000 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0009050 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0209020 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0201160 g	TotSc:	100.00118654 g		
X+Tx:	0.0015300 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0009220 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0209230 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0215410 g				

Final Test Results

Short Term S.D.	0.00000904 g	True Mass:	100.00175105 g
F-Test Value:	2.91	Conventional Mass:	100.00144488 g
F-Statistic:	0.55592608 g	Mx Correction:	0.00175105 g
Sc True Mass:	100.00122082 g	CMx Correction:	0.00144488 g
Sc - NIST:	0.00003428 g	Tolerance Class:	4
Air Density:	0.00118110 g/cm3	Tolerance:	0.002 g
Uncer of Calib:	0.00003679 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

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Serial #:	WM-G89-2	Temperature:	21.8 °C
Weight #:	4	Pressure:	753.5 mm/Hg
Retest #:	0	Rel Humidity:	46 %
Denomination:	50 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000125 g
Eq Wt/grams:	50 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000040 g	S: 50grl	50.000063 g	0.000014 g	7.95 g/cm3
X+Tx:	0.0002130 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0202100 g	Sc1: 50gp	50.00061144 g	0.00001127 g	7.8 g/cm3
S+Ts+SW:	0.0200050 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000140 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0004180 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0204130 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200200 g	TotSc:	50.00061144 g		
X+Tx:	0.0002320 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0004270 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0204240 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0202340 g				

Final Test Results

Short Term S.D.	-0.00000055 g		True Mass:	50.00037390 g
F-Test Value:	3		Conventional Mass:	50.00022082 g
F-Statistic:	0.00195514 g	*PASSED*	Mx Correction:	0.00037390 g
Sc True Mass:	50.00060468 g		CMx Correction:	0.00022082 g
Sc - NIST:	-0.00000676 g		Tolerance Class:	4
Air Density:	0.00118151 g/cm3		Tolerance:	0.0012 g
Uncer of Calib:	0.00002939 g			

Accept/Reject: A

Nebraska Standards Laboratory  
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 Lincoln, NE 68524  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

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Serial #:	WM-G89-2	Temperature:	21.8 °C
Weight #:	5	Pressure:	754.5 mm/Hg
Retest #:	0	Rel Humidity:	46.5 %
Denomination:	30 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000125 g
Eq Wt/grams:	30 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000000 g	S: 30grl	30.0000472 g	0.0000086 g	7.95 g/cm3
X+Tx:	0.0005510 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0205410 g	Sc1: 30gv	g	0.000017 g	7.85 g/cm3
S+Ts+SW:	0.0199970 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000080 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0002170 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0202090 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200120 g	TotSc:	0 g		
X+Tx:	0.0005680 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0002210 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0202130 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0205670 g				

Final Test Results

Short Term S.D.	g	True Mass:	30.00065938 g
F-Test Value:	3	Conventional Mass:	30.00056753 g
F-Statistic:	g	Mx Correction:	0.00065938 g
Sc True Mass:	g	CMx Correction:	0.00056753 g
Sc - NIST:	g	Tolerance Class:	4
Air Density:	0.00118303 g/cm3	Tolerance:	0.0009 g
Uncer of Calib:	0.00002723 g		

Accept/Reject: A

Nebraska Standards Laboratory  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

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Serial #:	WM-G89-2	Temperature:	19 °C
Weight #:	5	Pressure:	765.1 mm/Hg
Retest #:	1	Rel Humidity:	48 %
Denomination:	30 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000125 g
Eq Wt/grams:	30 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000040 g	S: 30grl	30.0000472 g	0.0000086 g	7.95 g/cm3
X+Tx:	0.0005850 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0205770 g	Sc1: 30g	30.000319 g	0.000007 g	8.01 g/cm3
S+Ts+SW:	0.0200150 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000210 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0003280 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0203150 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200050 g	TotSc:	30.000319 g		
X+Tx:	0.0005710 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0003230 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0203090 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0205520 g				

Final Test Results

Short Term S.D.	-0.00001001 g	True Mass:	30.00067709 g
F-Test Value:	3	Conventional Mass:	30.00058524 g
F-Statistic:	0.63867290 g	Mx Correction:	0.00067709 g
Sc True Mass:	30.00032729 g	CMx Correction:	0.00058524 g
Sc - NIST:	0.00000829 g	Tolerance Class:	4
Air Density:	0.00121195 g/cm3	Tolerance:	0.0009 g
Uncer of Calib:	0.00002723 g		

Accept/Reject: A



Nebraska Standards Laboratory  
 3721 West Cuming Street  
 Lincoln, NE 68524  
 (402) 471-2087

**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	21.9 °C
Weight #:	6	Pressure:	754.6 mm/Hg
Retest #:	0	Rel Humidity:	46 %
Denomination:	20 g	Comparator Used:	AT106_20g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000058 g
Eq Wt/grams:	20 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000020 g	S: 20grl	20.000044 g	0.0000061 g	7.95 g/cm3
X+Tx:	0.0002220 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0202170 g	Sc1: 20gp*	20.00017842 g	0.00001448 g	7.8 g/cm3
S+Ts+SW:	0.0200040 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000110 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000920 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0200870 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200110 g	TotSc:	20.00017842 g		
X+Tx:	0.0002330 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0200950 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0202320 g				

Final Test Results

Short Term S.D.	-0.00000173 g		True Mass:	20.00030122 g
F-Test Value:	3		Conventional Mass:	20.00023999 g
F-Statistic:	0.09053556 g	*PASSED*	Mx Correction:	0.00030122 g
Sc True Mass:	20.00018072 g		CMx Correction:	0.00023999 g
Sc - NIST:	0.00000230 g		Tolerance Class:	4
Air Density:	0.00118281 g/cm3		Tolerance:	0.0007 g
Uncer of Calib:	0.00001571 g			

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
 Lincoln, NE 68524  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
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Serial #:	WM-G89-2	Temperature:	21.9 °C
Weight #:	7	Pressure:	754.9 mm/Hg
Retest #:	0	Rel Humidity:	45 %
Denomination:	10 g	Comparator Used:	AT106_10g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000058 g
Eq Wt/grams:	10 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000030 g	S: 10grl	10.0000237 g	0.0000045 g	7.95 g/cm3
X+Tx:	0.0003950 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0203860 g	Sc1: 10gp	10.00014973 g	0.00002033 g	7.8 g/cm3
S+Ts+SW:	0.0199990 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000110 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0001050 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0200960 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200060 g	TotSc:	10.00014973 g		
X+Tx:	0.0004100 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001150 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0201070 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0204020 g				

Final Test Results

Short Term S.D.	-0.00000145 g	True Mass:	10.00043327 g
F-Test Value:	2.91	Conventional Mass:	10.00040265 g
F-Statistic:	0.06164816 g	Mx Correction:	0.00043327 g
Sc True Mass:	10.00014517 g	CMx Correction:	0.00040265 g
Sc - NIST:	-0.00000456 g	Tolerance Class:	4
Air Density:	0.00118340 g/cm3	Tolerance:	0.0005 g
Uncer of Calib:	0.00001887 g		

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

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Serial #:	WM-G89-2	Temperature:	18.9 °C
Weight #:	8	Pressure:	765 mm/Hg
Retest #:	0	Rel Humidity:	47.5 %
Denomination:	5 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	5 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 5grl	5.0000207 g	0.0000024 g	7.95 g/cm3
X+Tx:	0.0001827 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0201749 g	Sc1: 5gp	5.00014749 g	0.00000451 g	7.8 g/cm3
S+Ts+SW:	0.0199962 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000039 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0001183 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0201103 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199981 g	TotSc:	5.00014749 g		
X+Tx:	0.0001856 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001196 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0201116 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0201790 g				

Final Test Results

Short Term S.D.	-0.00000043 g	True Mass:	5.00021190 g
F-Test Value:	3	Conventional Mass:	5.00019659 g
F-Statistic:	0.07583723 g	Mx Correction:	0.00021190 g
Sc True Mass:	5.00014891 g	CMx Correction:	0.00019659 g
Sc - NIST:	0.00000142 g	Tolerance Class:	4
Air Density:	0.00121228 g/cm3	Tolerance:	0.00036 g
Uncer of Calib:	0.00000578 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

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Serial #: WM-G89-2  
 Weight #: 9  
 Retest #: 0  
 Denomination: 3 g  
 Density: 7.84 g/cm3  
 Eq Wt/grams: 3 g

Temperature: 19.1 °C  
 Pressure: 764.8 mm/Hg  
 Rel Humidity: 47 %  
 Comparator Used: CCE6\_5G  
 Pooled Std.Dev.: 0.0000016 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000003 g	S: 3grl	3.000017 g	0.0000016 g	7.95 g/cm3
X+Tx:	0.0000086 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0200010 g	Sc1: 3g	3.0000578 g	0.0000025 g	8.02 g/cm3
S+Ts+SW:	0.0199932 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000004 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000488 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0200404 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199944 g	TotSc:	3.0000578 g		
X+Tx:	0.0000092 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000499 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0200419 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0200030 g				

Final Test Results

Short Term S.D.	-0.00000055 g	True Mass:	3.00003145 g
F-Test Value:	3	Conventional Mass:	3.00002226 g
F-Statistic:	0.12197957 g	Mx Correction:	0.00003145 g
Sc True Mass:	3.00006053 g	CMx Correction:	0.00002226 g
Sc - NIST:	0.00000273 g	Tolerance Class:	4
Air Density:	0.00121113 g/cm3	Tolerance:	0.0003 g
Uncer of Calib:	0.00000550 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	18.8 °C
Weight #:	10	Pressure:	764.5 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	2 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	2 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 2grl	2.000013 g	0.0000013 g	7.95 g/cm3
X+Tx:	0.0000439 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0200353 g	Sc1: 2gp*	2.00004556 g	0.00000451 g	7.8 g/cm3
S+Ts+SW:	0.0199925 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000001 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000266 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0200178 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199929 g	TotSc:	2.00004556 g		
X+Tx:	0.0000443 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000250 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0200162 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0200345 g				

Final Test Results

Short Term S.D.	0.00000069 g	True Mass:	2.00006108 g
F-Test Value:	3	Conventional Mass:	2.00005496 g
F-Statistic:	0.19523968 g	Mx Correction:	0.00006108 g
Sc True Mass:	2.00004426 g	CMx Correction:	0.00005496 g
Sc - NIST:	-0.00000130 g	Tolerance Class:	4
Air Density:	0.00121188 g/cm3	Tolerance:	0.00026 g
Uncer of Calib:	0.00000542 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #: WM-G89-2  
 Weight #: 11  
 Retest #: 0  
 Denomination: 1 g  
 Density: 7.84 g/cm3  
 Eq Wt/grams: 1 g

Temperature: 19 °C  
 Pressure: 764.4 mm/Hg  
 Rel Humidity: 48 %  
 Comparator Used: CCE6\_1G  
 Pooled Std.Dev.: 0.0000011 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000003 g	S: 1grl	1.000011 g	0.0000012 g	7.95 g/cm3
X+Tx:	0.0000057 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0199973 g	Sc1: 1gp	1.00001007 g	0.00000373 g	7.8 g/cm3
S+Ts+SW:	0.0199929 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000007 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000022 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0199891 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199927 g	TotSc:	1.00001007 g		
X+Tx:	0.0000058 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000023 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0199890 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0199971 g				

Final Test Results

Short Term S.D.	-0.00000003 g	True Mass:	1.00001802 g
F-Test Value:	3	Conventional Mass:	1.00001496 g
F-Statistic:	0.00073030 g	Mx Correction:	0.00001802 g
Sc True Mass:	1.00001070 g	CMx Correction:	0.00001496 g
Sc - NIST:	0.00000063 g	Tolerance Class:	4
Air Density:	0.00121083 g/cm3	Tolerance:	0.0002 g
Uncer of Calib:	0.00000328 g		

Accept/Reject: A

Nebraska Standards Laboratory  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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 Area 30

NE Cert No: 20140029  
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 P.O. No:  
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Serial #:	WM-G89-2	Temperature:	18.9 °C
Weight #:	12	Pressure:	764.2 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	500 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.5 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000004 g	S: 500mgrl	0.50000305 g	0.00000097 g	7.95 g/cm3
X+Tx:	-0.0000206 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0199711 g	Sc1: 500mgp	0.49991389 g	0.00000318 g	16.6 g/cm3
S+Ts+SW:	0.0199935 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000019 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000509 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0199408 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199946 g	TotSc:	0.49991389 g		
X+Tx:	-0.0000190 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000494 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0199422 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0199734 g				

Final Test Results

Short Term S.D.	-0.00000046 g		True Mass:	0.49998215 g
F-Test Value:	3		Conventional Mass:	0.49998062 g
F-Statistic:	0.18742764 g	*PASSED*	Mx Correction:	-0.00001785 g
Sc True Mass:	0.49991033 g		CMx Correction:	-0.00001938 g
Sc - NIST:	-0.00000356 g		Tolerance Class:	4
Air Density:	0.00121096 g/cm3		Tolerance:	0.00016 g
Uncer of Calib:	0.00000320 g			

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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 P.O. No:  
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Serial #:	WM-G89-2	Temperature:	19.1 °C
Weight #:	13	Pressure:	765 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	200 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.2 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000000 g	S: 200mgrl	0.19999951 g	0.00000079 g	7.95 g/cm3
X+Tx:	-0.0000118 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0199797 g	Sc1: 200mgp*	0.1999863 g	0.0000003 g	16.6 g/cm3
S+Ts+SW:	0.0199919 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000001 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000021 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0199898 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199926 g	TotSc:	0.1999863 g		
X+Tx:	-0.0000108 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000010 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0199910 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0199815 g				

Final Test Results

Short Term S.D.	-0.0000009 g	True Mass:	0.19998789 g
F-Test Value:	3	Conventional Mass:	0.19998728 g
F-Statistic:	0.00656634 g	Mx Correction:	-0.00001211 g
Sc True Mass:	0.19998118 g	CMx Correction:	-0.00001272 g
Sc - NIST:	-0.00000512 g	Tolerance Class:	4
Air Density:	0.00121134 g/cm3	Tolerance:	0.00012 g
Uncer of Calib:	0.00000315 g		

Accept/Reject: A



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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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Serial #:	WM-G89-2	Temperature:	19.1 °C
Weight #:	14	Pressure:	765.1 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	200 mg*	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.2 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000019 g	S: 200mgrl	0.19999951 g	0.00000079 g	7.95 g/cm3
X+Tx:	-0.0000164 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0199753 g	Sc1: 200mgp*	0.1999863 g	0.0000003 g	16.6 g/cm3
S+Ts+SW:	0.0199941 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000021 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000003 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0199916 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199940 g	TotSc:	0.1999863 g		
X+Tx:	-0.0000154 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000002 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0199920 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0199757 g				

Final Test Results

Short Term S.D.	0.00000012 g	True Mass:	0.19998145 g
F-Test Value:	3	Conventional Mass:	0.19998084 g
F-Statistic:	0.01173090 g	Mx Correction:	-0.00001855 g
Sc True Mass:	0.19998116 g	CMx Correction:	-0.00001916 g
Sc - NIST:	-0.00000514 g	Tolerance Class:	4
Air Density:	0.00121160 g/cm3	Tolerance:	0.00012 g
Uncer of Calib:	0.00000315 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

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Serial #:	WM-G89-2	Temperature:	18.8 °C
Weight #:	15	Pressure:	765.5 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	100 mg	Comparator Used:	CCE6_100MG
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000010 g
Eq Wt/grams:	0.1 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000006 g	S: 100mgrl	0.0999982 g	0.00000092 g	7.95 g/cm3
X+Tx:	-0.0000724 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0199194 g	Sc1: 100mgp	0.10000537 g	0.00000029 g	16.6 g/cm3
S+Ts+SW:	0.0199908 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000012 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000139 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0200052 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0199905 g	TotSc:	0.10000537 g		
X+Tx:	-0.0000727 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000136 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0200051 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0199187 g				

Final Test Results

Short Term S.D.	0.00000009 g	True Mass:	0.09992686 g
F-Test Value:	3	Conventional Mass:	0.09992656 g
F-Statistic:	0.00724176 g	Mx Correction:	-0.00007314 g
Sc True Mass:	0.10000510 g	CMx Correction:	-0.00007344 g
Sc - NIST:	-0.00000027 g	Tolerance Class:	4
Air Density:	0.00121347 g/cm3	Tolerance:	0.0001 g
Uncer of Calib:	0.00000316 g		

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
 Lincoln, NE 68524  
 (402) 471-2087

**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	19.4 °C
Weight #:	16	Pressure:	765 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	50 mg	Comparator Used:	CCE6_100MG
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000010 g
Eq Wt/grams:	0.05 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000028 g	S: 50mgrl	0.05000374 g	0.00000048 g	7.95 g/cm3
X+Tx:	-0.0000078 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0049982 g	Sc1: 50mgp	0.05000104 g	0.00000289 g	16.6 g/cm3
S+Ts+SW:	0.0050093 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000062 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000086 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050145 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050125 g	TotSc:	0.05000104 g		
X+Tx:	-0.0000015 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000118 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050175 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050049 g				

Final Test Results

Short Term S.D.	0.0000006 g	True Mass:	0.04999303 g
F-Test Value:	3	Conventional Mass:	0.04999288 g
F-Statistic:	0.00321017 g	Mx Correction:	-0.00000697 g
Sc True Mass:	0.05000194 g	CMx Correction:	-0.00000712 g
Sc - NIST:	0.00000090 g	Tolerance Class:	4
Air Density:	0.00121011 g/cm3	Tolerance:	0.000085 g
Uncer of Calib:	0.00000306 g		

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
 Lincoln, NE 68524  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

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 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #: WM-G89-2  
 Weight #: 17  
 Retest #: 0  
 Denomination: 20 mg  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.02 g

Temperature: 19 °C  
 Pressure: 764.5 mm/Hg  
 Rel Humidity: 47 %  
 Comparator Used: CCE6\_100MG  
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000007 g	S: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx:	0.0000141 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050194 g	Sc1: 20mgp	0.02001115 g	0.00000032 g	7.95 g/cm3
S+Ts+SW:	0.0050044 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000002 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000137 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050190 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050053 g	TotSc:	0.02001115 g		
X+Tx:	0.0000158 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000134 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050185 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050207 g				

Final Test Results

Short Term S.D.	0.00000058 g	True Mass:	0.02001302 g
F-Test Value:	3	Conventional Mass:	0.02000713 g
F-Statistic:	0.32592048 g	Mx Correction:	0.00001302 g
Sc True Mass:	0.02000513 g	CMx Correction:	0.00000713 g
Sc - NIST:	-0.00000602 g	Tolerance Class:	4
Air Density:	0.00121109 g/cm3	Tolerance:	0.00007 g
Uncer of Calib:	0.00000303 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

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 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #: WM-G89-2  
 Weight #: 18  
 Retest #: 0  
 Denomination: 20 mg\*  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.02 g

Temperature: 20.7 °C  
 Pressure: 764.3 mm/Hg  
 Rel Humidity: 45.5 %  
 Comparator Used: CCE6\_100MG  
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000036 g	S: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx:	0.0000279 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050330 g	Sc1: 20mgp	0.02001115 g	0.00000032 g	7.95 g/cm3
S+Ts+SW:	0.0050014 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000054 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000085 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050143 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050042 g	TotSc:	0.02001115 g		
X+Tx:	0.0000328 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000139 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050200 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050409 g				

Final Test Results

Short Term S.D.	0.00000020 g	True Mass:	0.02002942 g
F-Test Value:	3	Conventional Mass:	0.02002352 g
F-Statistic:	0.03864199 g	Mx Correction:	0.00002942 g
Sc True Mass:	0.02000374 g	CMx Correction:	0.00002352 g
Sc - NIST:	-0.00000741 g	Tolerance Class:	4
Air Density:	0.00120342 g/cm3	Tolerance:	0.00007 g
Uncer of Calib:	0.00000303 g		

Accept/Reject: A

Nebraska Standards Laboratory  
 3721 West Cuming Street  
 Lincoln, NE 68524  
 (402) 471-2087

**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	20 °C
Weight #:	19	Pressure:	764.2 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	10 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000014 g
Eq Wt/grams:	0.01 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000004 g	S: 10mgrl	0.01000613 g	0.00000021 g	7.95 g/cm3
X+Tx:	-0.0000130 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0049922 g	Sc1: 10mgp	0.01000819 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0050041 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000009 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000027 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050077 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050050 g	TotSc:	0.01000819 g		
X+Tx:	-0.0000163 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000007 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050039 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0049874 g				

Final Test Results

Short Term S.D.	-0.00000038 g	True Mass:	0.00999661 g
F-Test Value:	3	Conventional Mass:	0.00999367 g
F-Statistic:	0.07525319 g	Mx Correction:	-0.00000339 g
Sc True Mass:	0.01000950 g	CMx Correction:	-0.00000633 g
Sc - NIST:	0.00000131 g	Tolerance Class:	4
Air Density:	0.00120619 g/cm3	Tolerance:	0.00006 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A

Nebraska Standards Laboratory  
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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
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 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #: WM-G89-2  
 Weight #: 20  
 Retest #: 0  
 Denomination: 5 mg  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.005 g

Temperature: 20.2 °C  
 Pressure: 764 mm/Hg  
 Rel Humidity: 47 %  
 Comparator Used: CCE6\_10MG  
 Pooled Std.Dev.: 0.0000014 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000006 g	S: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx:	-0.0000042 g	SW: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0019997 g	Sc1: 5mgp	0.00501219 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0020059 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000053 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000146 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0020170 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0020091 g	TotSc:	0.00501219 g		
X+Tx:	0.0000024 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000158 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0020194 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0020096 g				

Final Test Results

Short Term S.D.	0.00000144 g	True Mass:	0.00500217 g
F-Test Value:	3	Conventional Mass:	0.00500070 g
F-Statistic:	1.11063572 g	Mx Correction:	0.00000217 g
Sc True Mass:	0.00501313 g	CMx Correction:	0.00000070 g
Sc - NIST:	0.00000094 g	Tolerance Class:	4
Air Density:	0.00120499 g/cm3	Tolerance:	0.000055 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
 Agency: Food Safety & Consumer Protection  
 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	20.2 °C
Weight #:	21	Pressure:	763.8 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	2 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000014 g
Eq Wt/grams:	0.002 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000002 g	S: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx:	-0.0000011 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050041 g	Sc1: 2mgp	0.00201223 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0050028 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000024 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000067 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050119 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050028 g	TotSc:	0.00201223 g		
X+Tx:	-0.0000016 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000062 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050113 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050030 g				

Final Test Results

Short Term S.D.	0.00000049 g	True Mass:	0.00200448 g
F-Test Value:	3	Conventional Mass:	0.00200389 g
F-Statistic:	0.12792990 g	Mx Correction:	0.00000448 g
Sc True Mass:	0.00201223 g	CMx Correction:	0.00000389 g
Sc - NIST:	0.00000000 g	Tolerance Class:	4
Air Density:	0.00120456 g/cm3	Tolerance:	0.00005 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A



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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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 Area 30

NE Cert No: 20140029  
 Date: 3/31/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	20.1 °C
Weight #:	22	Pressure:	763.4 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	2 mg*	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000014 g
Eq Wt/grams:	0.002 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000075 g	S: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx:	0.0000035 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050083 g	Sc1: 2mgp	0.00201223 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0049966 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000093 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000012 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050042 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0049954 g	TotSc:	0.00201223 g		
X+Tx:	0.0000027 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000005 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050051 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050082 g				

Final Test Results

Short Term S.D.	0.00000014 g	True Mass:	0.00201544 g
F-Test Value:	3	Conventional Mass:	0.00201484 g
F-Statistic:	0.01093865 g	Mx Correction:	0.00001544 g
Sc True Mass:	0.00201178 g	CMx Correction:	0.00001484 g
Sc - NIST:	-0.00000045 g	Tolerance Class:	4
Air Density:	0.00120437 g/cm3	Tolerance:	0.00005 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A

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**SOP 5 - 3-1 Weighing Design Test Results - Individual Weight**

Form No.: NE04LF3-R00

Agency ID: 30  
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 Area 30

NE Cert No: 20140029  
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 P.O. No:  
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial #:	WM-G89-2	Temperature:	20.2 °C
Weight #:	23	Pressure:	763 mm/Hg
Retest #:	0	Rel Humidity:	47.5 %
Denomination:	1 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000014 g
Eq Wt/grams:	0.001 g		

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000045 g	S: 1mgrl	0.00100509 g	0.00000025 g	7.95 g/cm3
X+Tx:	-0.0000134 g	SW: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0019894 g	Sc1: 1mgp	0.00099541 g	0.00000214 g	7.95 g/cm3
S+Ts+SW:	0.0019972 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000065 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000060 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0019971 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0019963 g	TotSc:	0.00099541 g		
X+Tx:	-0.0000155 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000067 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0019965 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0019876 g				

Final Test Results

Short Term S.D.	0.00000009 g	True Mass:	0.00099708 g
F-Test Value:	3	Conventional Mass:	0.00099679 g
F-Statistic:	0.00407694 g	Mx Correction:	-0.00000292 g
Sc True Mass:	0.00100569 g	CMx Correction:	-0.00000321 g
Sc - NIST:	0.00001028 g	Tolerance Class:	4
Air Density:	0.00120335 g/cm3	Tolerance:	0.00005 g
Uncer of Calib:	0.00000351 g		

Accept/Reject: A