



**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 15

**Date:** 3/21/2014  
**Agency ID:** 15  
**NE Cert No:** 20140026  
**P.O. No:**

**Submitted By:** Kent McConnell

*Electronic Copy Page 1*

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
5 gal	05-40547-01	1	VL	A
5 gal	05-40547-02	1	VL	A
5 gal	05-40547-03	1	VL	A
5 gal	39423-A	1	VL	A
5 gal	39423-D	1	VL	A
2 lb	3A11	1	F	A
2 lb	3A11	2	F	A
2 lb	3A11	3	F	A
2 lb	3A11	4	F	A
2 lb	3A11	5	F	A
2 lb	3A11	6	F	A
2 lb	3A11	7	F	A
2 lb	3A11	8	F	A
2 lb	3A11	9	F	A
2 lb	3A11	10	F	A
2 lb	3A11	11	F	A
2 lb	3A11	12	F	A
2 lb	3A11	13	F	A
2 lb	3A11	14	F	A
1 lb	3A11	15	F	A
1 lb	3A11	16	F	A
8 oz	3A11	17	F	A
4 oz	3A11	18	F	A
2 oz	3A11	19	F	A
1 oz	3A11	20	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

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Bureau of Animal Industry  
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Bureau of Dairies & Foods  
P.O. Box 95064  
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Bureau of Plant Industry  
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Weights and Measures  
P.O. Box 94757  
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FAX: (402) 471-2759

Submitted By: Kent McConnell

Electronic Copy Page 2

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
0.5 oz	3A11	21	F	A
0.25 oz	3A11	22	F	A
0.125 oz	3A11	23	F	A
0.0625 oz	3A11	24	F	A
0.0625 oz*	3A11	25	F	A
0.3 lb	3A11	26	F	A
0.2 lb	3A11	27	F	A
0.1 lb	3A11	28	F	A
0.05 lb	3A11	29	F	A
0.03 lb	3A11	30	F	A
0.02 lb	3A11	31	F	A
0.01 lb	3A11	32	F	A
0.005 lb	3A11	33	F	A
0.003 lb	3A11	34	F	A
0.002 lb	3A11	35	F	A
0.001 lb	3A11	36	F	A
0.001 lb*	3A11	37	F	A
2 lb	9-OPI-5	1	F	A
2 lb	9-OPI-5	2	F	A
2 lb	9-OPI-5	3	F	A
1 lb	9-OPI-5	4	F	A
8 oz	9-OPI-5	5	F	A
4 oz	9-OPI-5	6	F	A
2 oz	9-OPI-5	7	F	A
1 oz	9-OPI-5	8	F	A
0.5 oz	9-OPI-5	9	F	A
0.25 oz	9-OPI-5	10	F	A
0.125 oz	9-OPI-5	11	F	A
0.0625 oz	9-OPI-5	12	F	A
0.0625 oz*	9-OPI-5	13	F	A
1 kg	FSCP-3A14	1	F1	A
500 g	FSCP-3A14	2	F1	A
200 g	FSCP-3A14	3	F1	A
200 g*	FSCP-3A14	4	F1	A
100 g	FSCP-3A14	5	F1	A
50 g	FSCP-3A14	6	F1	A

Submitted By: Kent McConnell

Electronic Copy Page 3

Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
20 g	FSCP-3A14	7	F1	A
20 g*	FSCP-3A14	8	F1	A
10 g	FSCP-3A14	9	F1	A
5 g	FSCP-3A14	10	F1	A
2 g	FSCP-3A14	11	F1	A
2 g*	FSCP-3A14	12	F1	A
1 g	FSCP-3A14	13	F1	A
500 mg	FSCP-3A14	14	F1	A
200 mg	FSCP-3A14	15	F1	A
200 mg*	FSCP-3A14	16	F1	A
100 mg	FSCP-3A14	17	F1	A
50 mg	FSCP-3A14	18	F1	A
20 mg	FSCP-3A14	19	F1	A
20 mg*	FSCP-3A14	20	F1	A
10 mg	FSCP-3A14	21	F1	A
5 mg	FSCP-3A14	22	F1	A
2 mg	FSCP-3A14	23	F1	A
2 mg*	FSCP-3A14	24	F1	A
1 mg	FSCP-3A14	25	F1	A
2 kg	K5	1	4	A
2 kg	K6	1	4	A
0.2 lb	N-99-C	1	F	A
0.2 lb*	N-99-C	2	F	A
0.1 lb	N-99-C	3	F	A
0.05 lb	N-99-C	4	F	A
0.02 lb	N-99-C	5	F	A
0.02 lb*	N-99-C	6	F	A
0.01 lb	N-99-C	7	F	A
0.005 lb	N-99-C	8	F	A
0.002 lb	N-99-C	9	F	A
0.002 lb*	N-99-C	10	F	A
0.001 lb	N-99-C	11	F	A
15 lb	WM15-3	1	6	A
15 lb	WM15-4	1	6	A
25 lb	WM25-100	1	F	A
25 lb	WM25-101	1	F	A
25 lb	WM25-102	1	F	A
25 lb	WM25-103	1	F	A
25 lb	WM25-28	1	F	A
25 lb	WM25-38	1	F	A
25 lb	WM25-45	1	F	A
25 lb	WM25-55	1	F	A

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Electronic Copy Page 4

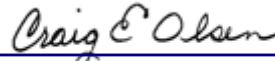
Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
25 lb	WM25-56	1	F	A
25 lb	WM25-57	1	F	A
25 lb	WM25-58	1	F	A
25 lb	WM25-59	1	F	A
25 lb	WM25-75	1	F	A
25 lb	WM25-76	1	F	A
25 lb	WM25-77	1	F	A
25 lb	WM25-78	1	F	A
25 lb	WM25-79	1	F	A
25 lb	WM25-96	1	F	A
25 lb	WM25-97	1	F	A
25 lb	WM25-98	1	F	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: 15

Agency: Food Safety & Consumer Protection  
Area 15

Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Submitted By: Kent McConnell

Page 1 of 10

Serial #: 05-40547-01  
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	46.6 °F	0.999841	0 in3

**Test Measure Information**

Water Temperature: 46.8 °F  
Water Density: 0.999841 g/cm<sup>3</sup>  
Scale Reading: -0.25 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

Nebraska Standards Laboratory  
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**SOP 19 - Volume Transfer Test Results**

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NE Cert No: 20140026

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Submitted By: Kent McConnell

Page 2 of 10

Serial #: 05-40547-01  
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	46.5 °F	0.999845	0 in3

**Test Measure Information**

Water Temperature: 46.7 °F  
Water Density: 0.999845 g/cm<sup>3</sup>  
Scale Reading: -0.25 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

Nebraska Standards Laboratory  
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**SOP 19 - Volume Transfer Test Results**

Agency ID: 15

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Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

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Page 3 of 10

Serial #: 05-40547-02  
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	47.5 °F	0.999808	0 in3

**Test Measure Information**

Water Temperature: 47.8 °F  
Water Density: 0.999808 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 Cumming Street  
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**SOP 19 - Volume Transfer Test Results**

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Area 15

Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

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Page 4 of 10

Serial #: 05-40547-02  
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	46.3 °F	0.999851	0 in3

**Test Measure Information**

Water Temperature: 46.5 °F  
Water Density: 0.999851 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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**SOP 19 - Volume Transfer Test Results**

Agency ID: 15

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Area 15

Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Submitted By: Kent McConnell

Page 5 of 10

Serial #: 05-40547-03  
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	47.3 °F	0.999816	0 in3

**Test Measure Information**

Water Temperature: 47.5 °F  
Water Density: 0.999816 g/cm<sup>3</sup>  
Scale Reading: -0.25 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0002 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 19 - Volume Transfer Test Results**

Agency ID: 15

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Area 15

Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Submitted By: Kent McConnell

Page 6 of 10

Serial #: 05-40547-03  
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	46.6 °F	0.999841	0 in3

**Test Measure Information**

Water Temperature: 46.8 °F  
Water Density: 0.999841 g/cm<sup>3</sup>  
Scale Reading: -0.25 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

Nebraska Standards Laboratory  
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**SOP 19 - Volume Transfer Test Results**

Agency ID: 15

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Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Submitted By: Kent McConnell

Page 7 of 10

Serial #: 39423-A  
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	48.4 °F	0.999772	0 in3

**Test Measure Information**

Water Temperature: 49.2 °F  
Water Density: 0.999772 g/cm<sup>3</sup>  
Scale Reading: -0.25 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0003 gal.  
Tolerance: 0.0025 gal.  
Uncertainty: 0.0021 gal.

Accepted/Rejected: A

*1 cubic meter = 264.172 gallons*

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**SOP 19 - Volume Transfer Test Results**

Agency ID: 15

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Area 15

Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

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Page 8 of 10

Serial #: 39423-A  
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	46.4 °F	0.999848	0 in3

**Test Measure Information**

Water Temperature: 46.6 °F  
Water Density: 0.999848 g/cm<sup>3</sup>  
Scale Reading: -0.25 cu.in.

**Test Results**

Test Measure Volume @ 60° F at zero scale reading: 5.0002 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 19 - Volume Transfer Test Results**

Agency ID: 15

Agency: Food Safety & Consumer Protection  
Area 15

Form No.: NE03LF12-R00

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Submitted By: Kent McConnell

Page 9 of 10

Serial #: 39423-D  
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 °F	0.999861	0 in3

**Test Measure Information**

Water Temperature: 46.3 °F  
Water Density: 0.999861 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: 15

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Area 15

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NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

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Page 10 of 10

Serial #: 39423-D  
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	45.6 °F	0.999874	0 in3

**Test Measure Information**

Water Temperature: 46 °F  
Water Density: 0.999874 g/cm<sup>3</sup>  
Scale Reading: -0.1 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*

**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: 15  
 Agency: Food Safety & Consumer Protection  
 Area 15  
 , -

NE Cert No: 20140026  
 Date: 3/21/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

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Page 1 of 3

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
3A11	1	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0014800 g	0.091 g	0.0006026 g	A
3A11	2	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0057800 g	0.091 g	0.0006026 g	A
3A11	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0400800 g	0.091 g	0.0006026 g	A
3A11	4	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0637800 g	0.091 g	0.0006026 g	A
3A11	5	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0476800 g	0.091 g	0.0006026 g	A
3A11	6	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0611800 g	0.091 g	0.0006026 g	A
3A11	7	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0507800 g	0.091 g	0.0006026 g	A
3A11	8	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0506800 g	0.091 g	0.0006026 g	A
3A11	9	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0545800 g	0.091 g	0.0006026 g	A
3A11	10	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0393800 g	0.091 g	0.0006026 g	A
3A11	11	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0533800 g	0.091 g	0.0006026 g	A
3A11	12	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0587800 g	0.091 g	0.0006026 g	A
3A11	13	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0481800 g	0.091 g	0.0006026 g	A
3A11	14	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0334800 g	0.091 g	0.0006026 g	A
3A11	15	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0178200 g	0.07 g	0.0011667 g	A
3A11	16	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0409200 g	0.07 g	0.0011667 g	A
3A11	17	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0114700 g	0.045 g	0.0008197 g	A
3A11	18	0	4 oz	CC1201_8 oz	NSL-Z	0.0014440 g	0.023 g	0.0008180 g	A
3A11	19	0	2 oz	AT106_0.2 lb	NSL-Y	-0.0037100 g	0.011 g	0.0000484 g	A
3A11	20	0	1 oz	AT106_0.2 lb	2A9-1oz	-0.0049890 g	0.0054 g	0.0000454 g	A
3A11	21	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	-0.0015540 g	0.0028 g	0.0000246 g	A
3A11	22	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	-0.0004680 g	0.0017 g	0.0000236 g	A
3A11	23	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	-0.0010871 g	0.0013 g	0.0000174 g	A
3A11	24	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	0.0007259 g	0.0011 g	0.0000171 g	A
3A11	25	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	0.0003054 g	0.0011 g	0.0000171 g	A
3A11	26	0	0.3 lb	CC1201_8 oz	NSL-WK1	-0.0071420 g	0.027 g	0.0008180 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: 15  
 Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026  
 Date: 3/21/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

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Page 2 of 3

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
3A11	27	0	0.2 lb	AT106_0.2 lb	NSL-WK2	-0.0048910 g	0.018 g	0.0000603 g	A
3A11	28	0	0.1 lb	AT106_0.2 lb	NSL-WK3	-0.0064820 g	0.0091 g	0.0000473 g	A
3A11	29	0	0.05 lb	AT106_0.05 lb	NSL-WK4	-0.0000090 g	0.0045 g	0.0000275 g	A
3A11	30	0	0.03 lb	AT106_0.05 lb	NSL-WK5	-0.0010220 g	0.0027 g	0.0000246 g	A
3A11	31	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0008540 g	0.0018 g	0.0000236 g	A
3A11	32	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0013032 g	0.0015 g	0.0000176 g	A
3A11	33	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	0.0002254 g	0.0012 g	0.0000172 g	A
3A11	34	0	0.003 lb	CCE6_0.01 lb	NSL-WK9	-0.0004360 g	0.00099 g	0.0000171 g	A
3A11	35	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0005622 g	0.00087 g	0.0000168 g	A
3A11	36	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0004988 g	0.0007 g	0.0000168 g	A
3A11	37	0	0.001 lb*	CCE6_0.01 lb	NSL-WK11	0.0003660 g	0.0007 g	0.0000168 g	A
9-OPI-5	1	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0661800 g	0.091 g	0.0006026 g	A
9-OPI-5	2	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0545800 g	0.091 g	0.0006026 g	A
9-OPI-5	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0119800 g	0.091 g	0.0006026 g	A
9-OPI-5	4	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0043200 g	0.07 g	0.0011667 g	A
9-OPI-5	5	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0038700 g	0.045 g	0.0008197 g	A
9-OPI-5	6	0	4 oz	CC1201_8 oz	NSL-Z	-0.0010560 g	0.023 g	0.0008180 g	A
9-OPI-5	7	0	2 oz	AT106_0.2 lb	NSL-Y	-0.0006890 g	0.011 g	0.0000484 g	A
9-OPI-5	8	0	1 oz	AT106_0.2 lb	2A9-1oz	0.0002800 g	0.0054 g	0.0000454 g	A
9-OPI-5	9	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	0.0013200 g	0.0028 g	0.0000246 g	A
9-OPI-5	10	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	0.0001930 g	0.0017 g	0.0000236 g	A
9-OPI-5	11	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	-0.0008038 g	0.0013 g	0.0000174 g	A
9-OPI-5	12	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	-0.0002062 g	0.0011 g	0.0000171 g	A
9-OPI-5	13	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	0.0000173 g	0.0011 g	0.0000171 g	A
K5	1	0	2 kg	CC10000S_2kg	2kgd	0.0018200 g	0.04 g	0.0008952 g	A
K6	1	0	2 kg	CC10000S_2kg	2kgd	0.0059200 g	0.04 g	0.0008952 g	A
N-99-C	1	0	0.2 lb	AT106_0.2 lb	NSL-WK2	0.0065170 g	0.018 g	0.0000603 g	A
N-99-C	2	0	0.2 lb*	AT106_0.2 lb	NSL-WK2	0.0080080 g	0.018 g	0.0000603 g	A
N-99-C	3	0	0.1 lb	AT106_0.2 lb	NSL-WK3	0.0036540 g	0.0091 g	0.0000473 g	A
N-99-C	4	0	0.05 lb	AT106_0.05 lb	NSL-WK4	0.0011450 g	0.0045 g	0.0000275 g	A
N-99-C	5	0	0.02 lb	AT106_0.05 lb	NSL-WK6	-0.0006570 g	0.0018 g	0.0000236 g	A
N-99-C	6	0	0.02 lb*	AT106_0.05 lb	NSL-WK6	-0.0000500 g	0.0018 g	0.0000236 g	A
N-99-C	7	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	-0.0001471 g	0.0015 g	0.0000176 g	A

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

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Agency ID: 15  
 Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026  
 Date: 3/21/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

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Page 3 of 3

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
N-99-C	8	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	0.0004547 g	0.0012 g	0.0000172 g	A
N-99-C	9	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0000804 g	0.00087 g	0.0000168 g	A
N-99-C	10	0	0.002 lb*	CCE6_0.01 lb	NSL-WK10	0.0001283 g	0.00087 g	0.0000168 g	A
N-99-C	11	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	0.0000098 g	0.0007 g	0.0000168 g	A
WM15-3	1	0	15 lb	KA30-3_25lb	NEBR-STD-15	-0.0743310 g	0.5 g	0.0376107 g	A
WM15-4	1	0	15 lb	KA30-3_25lb	NEBR-STD-15	-0.2343310 g	0.5 g	0.0376107 g	A
WM25-100	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9520000 g	1.1 g	0.0430016 g	A
WM25-101	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5270000 g	1.1 g	0.0430016 g	A
WM25-102	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8420000 g	1.1 g	0.0430016 g	A
WM25-103	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6320000 g	1.1 g	0.0430016 g	A
WM25-28	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0930000 g	1.1 g	0.0430016 g	A
WM25-38	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5680000 g	1.1 g	0.0430016 g	A
WM25-45	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4270000 g	1.1 g	0.0430016 g	A
WM25-55	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2930000 g	1.1 g	0.0430016 g	A
WM25-56	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0830000 g	1.1 g	0.0430016 g	A
WM25-57	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8630000 g	1.1 g	0.0430016 g	A
WM25-58	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8130000 g	1.1 g	0.0430016 g	A
WM25-59	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9030000 g	1.1 g	0.0430016 g	A
WM25-75	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3130000 g	1.1 g	0.0430016 g	A
WM25-76	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6480000 g	1.1 g	0.0430016 g	A
WM25-77	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0680000 g	1.1 g	0.0430016 g	A
WM25-78	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1070000 g	1.1 g	0.0430016 g	A
WM25-79	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8630000 g	1.1 g	0.0430016 g	A
WM25-96	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7070000 g	1.1 g	0.0430016 g	A
WM25-97	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5320000 g	1.1 g	0.0430016 g	A
WM25-98	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8270000 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.**

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: 15  
Agency: Food Safety & Consumer Protection  
Area 15

NE Cert No: 20140026  
Date: 3/21/2014  
P.O. No:  
Observer: CEO

Submitted By: Kent McConnell

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Page 1 of 2

Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
1 kg	FSCP-3A14	1	1000.00139299	1000.00195347	0.00038929	CC1201_1kg	1kgd*
500 g	FSCP-3A14	2	500.00088503	500.00116527	0.00019776	CC1201_500g	500gd
200 g	FSCP-3A14	3	200.00023579	200.00034789	0.00014689	CC1201_200g	200gd
200 g*	FSCP-3A14	4	200.00018689	200.00029899	0.00014689	CC1201_200g	200gd
100 g	FSCP-3A14	5	100.00019365	100.00024970	0.00003679	AT106_100g	100grl
50 g	FSCP-3A14	6	50.00001844	50.00004646	0.00002939	AT106_50g	50grl
20 g	FSCP-3A14	7	20.00010414	20.00011535	0.00001571	AT106_20g	20grl
20 g*	FSCP-3A14	8	20.00001117	20.00002238	0.00001571	AT106_20g	20grl
10 g	FSCP-3A14	9	10.00004404	10.00004965	0.00001887	AT106_10g	10grl
5 g	FSCP-3A14	10	5.00002964	5.00003245	0.00000578	CCE6_5G	5grl
2 g	FSCP-3A14	11	2.00002206	2.00002318	0.00000542	CCE6_5G	2grl
2 g*	FSCP-3A14	12	2.00001480	2.00001592	0.00000542	CCE6_5G	2grl
1 g	FSCP-3A14	13	1.00003417	1.00003473	0.00000328	CCE6_1G	1grl
500 mg	FSCP-3A14	14	0.50001560	0.50001513	0.00000320	CCE6_1G	500mgrl
200 mg	FSCP-3A14	15	0.20001543	0.20001524	0.00000315	CCE6_1G	200mgrl
200 mg*	FSCP-3A14	16	0.20001228	0.20001209	0.00000315	CCE6_1G	200mgrl
100 mg	FSCP-3A14	17	0.10001150	0.10001141	0.00000316	CCE6_100MG	100mgrl
50 mg	FSCP-3A14	18	0.04999904	0.04999899	0.00000306	CCE6_100MG	50mgrl
20 mg	FSCP-3A14	19	0.02001723	0.02001721	0.00000303	CCE6_100MG	20mgrl
20 mg*	FSCP-3A14	20	0.02000386	0.02000384	0.00000303	CCE6_100MG	20mgrl

*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: 15  
Agency: Food Safety & Consumer Protection  
Area 15  
, -

NE Cert No: 20140026  
Date: 3/21/2014  
P.O. No:  
Observer: CEO

Submitted By: Kent McConnell

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Page 2 of 2

Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
10 mg	FSCP-3A14	21	0.01000845	0.01000844	0.00000350	CCE6_10MG	10mgrl
5 mg	FSCP-3A14	22	0.00499977	0.00499829	0.00000350	CCE6_10MG	5mgrl
2 mg	FSCP-3A14	23	0.00201061	0.00201002	0.00000350	CCE6_10MG	2mgrl
2 mg*	FSCP-3A14	24	0.00200614	0.00200555	0.00000350	CCE6_10MG	2mgrl
1 mg	FSCP-3A14	25	0.00101236	0.00101206	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: 15

Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

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Page 1 of 25

Serial #: FSCP-3A14  
 Weight #: 1  
 Retest #: 0  
 Denomination: 1 kg  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 1000 g

Temperature: 19.9 °C  
 Pressure: 759.2 mm/Hg  
 Rel Humidity: 43 %  
 Comparator Used: CC1201\_1kg  
 Pooled Std.Dev.: 0.0001671 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0003000 g	S: 1kgd*	1000.00433 g	0.00018 g	7.85 g/cm3
X+Tx:	0.0010000 g	SW: 10mgrl	0.01000613 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0113000 g	Sc1: 1kgd	1000.00484 g	0.00018 g	7.85 g/cm3
S+Ts+SW:	0.0110000 g	Sc2:	g	g	g/cm3
S+Ts:	0.0010000 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0016000 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0118000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0115000 g	TotSc:	1000.00484 g		
X+Tx:	0.0021000 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0022000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0122000 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0124000 g				

Final Test Results

Short Term S.D.	0.00000331 g	True Mass:	1000.00139299 g
F-Test Value:	2.91	Conventional Mass:	1000.00195347 g
F-Statistic:	0.00039333 g	Mx Correction:	0.00139299 g
Sc True Mass:	1000.00476953 g	CMx Correction:	0.00195347 g
Sc - NIST:	-0.00007047 g	Tolerance Class:	F1
Air Density:	0.00119912 g/cm3	Tolerance:	0.005 g
Uncer of Calib:	0.00038929 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

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NE Cert No: 20140026

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Observer: CEO

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Page 2 of 25

Serial #: FSCP-3A14  
 Weight #: 2  
 Retest #: 0  
 Denomination: 500 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 500 g

Temperature: 20.3 °C  
 Pressure: 760.1 mm/Hg  
 Rel Humidity: 48 %  
 Comparator Used: CC1201\_500g  
 Pooled Std.Dev.: 0.0000752 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0003000 g	S: 500gd	500.001011 g	0.000047 g	7.85 g/cm3
X+Tx:	0.0022000 g	SW: 10mgrl	0.01000613 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0123000 g	Sc1: 500g	500.003846 g	0.000021 g	7.99 g/cm3
S+Ts+SW:	0.0109000 g	Sc2:	g	g	g/cm3
S+Ts:	0.0010000 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0054000 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0155000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0112000 g	TotSc:	500.003846 g		
X+Tx:	0.0028000 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0057000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0158000 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0130000 g				

Final Test Results

Short Term S.D.	-0.00008573 g	True Mass:	500.00088503 g
F-Test Value:	3	Conventional Mass:	500.00116527 g
F-Statistic:	1.30002523 g	Mx Correction:	0.00088503 g
Sc True Mass:	500.00403258 g	CMx Correction:	0.00116527 g
Sc - NIST:	0.00018658 g	Tolerance Class:	F1
Air Density:	0.00119826 g/cm3	Tolerance:	0.0025 g
Uncer of Calib:	0.00019776 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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Page 3 of 25

Serial #: FSCP-3A14  
 Weight #: 3  
 Retest #: 0  
 Denomination: 200 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 200 g

Temperature: 20.3 °C  
 Pressure: 760.1 mm/Hg  
 Rel Humidity: 47 %  
 Comparator Used: CC1201\_200g  
 Pooled Std.Dev.: 0.0000698 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0001000 g	S: 200gd	200.000987 g	0.00004 g	7.85 g/cm3
X+Tx:	0.0001000 g	SW: 10mgrl	0.01000613 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0101000 g	Sc1: 200g	200.00251 g	0.000012 g	7.99 g/cm3
S+Ts+SW:	0.0102000 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:	0.0123000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0102000 g	TotSc:	200.00251 g		
X+Tx:	0.0002000 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0024000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0124000 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0102000 g				

Final Test Results

Short Term S.D.	-0.00002886 g	True Mass:	200.00023579 g
F-Test Value:	3	Conventional Mass:	200.00034789 g
F-Statistic:	0.17115217 g	Mx Correction:	0.00023579 g
Sc True Mass:	200.00256991 g	CMx Correction:	0.00034789 g
Sc - NIST:	0.00005991 g	Tolerance Class:	F1
Air Density:	0.00119837 g/cm3	Tolerance:	0.001 g
Uncer of Calib:	0.00014689 g		

Accept/Reject: A

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

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Page 4 of 25

Serial #: FSCP-3A14  
 Weight #: 4  
 Retest #: 0  
 Denomination: 200 g\*  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 200 g

Temperature: 20.5 °C  
 Pressure: 760.2 mm/Hg  
 Rel Humidity: 48 %  
 Comparator Used: CC1201\_200g  
 Pooled Std.Dev.: 0.0000698 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0004000 g	S: 200gd	200.000987 g	0.00004 g	7.85 g/cm3
X+Tx:	-0.0005000 g	SW: 10mgrl	0.01000613 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0096000 g	Sc1: 200g	200.00251 g	0.000012 g	7.99 g/cm3
S+Ts+SW:	0.0097000 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0002000 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0019000 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0119000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0099000 g	TotSc:	200.00251 g		
X+Tx:	-0.0002000 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0020000 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0120000 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0098000 g				

Final Test Results

Short Term S.D.	-0.00002943 g	True Mass:	200.00018689 g
F-Test Value:	3	Conventional Mass:	200.00029899 g
F-Statistic:	0.17799762 g	Mx Correction:	0.00018689 g
Sc True Mass:	200.00252058 g	CMx Correction:	0.00029899 g
Sc - NIST:	0.00001058 g	Tolerance Class:	F1
Air Density:	0.00119754 g/cm3	Tolerance:	0.001 g
Uncer of Calib:	0.00014689 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: 15  
 Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026  
 Date: 3/21/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

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Page 5 of 25

Serial #: FSCP-3A14  
 Weight #: 5  
 Retest #: 0  
 Denomination: 100 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 100 g

Temperature: 20.4 °C  
 Pressure: 760.8 mm/Hg  
 Rel Humidity: 49 %  
 Comparator Used: AT106\_100g  
 Pooled Std.Dev.: 0.0000121 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000800 g	S: 100grl	100.000145 g	0.000027 g	7.95 g/cm3
X+Tx:	0.0002880 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0202920 g	Sc1: 100gp	100.00118654 g	0.00001725 g	7.8 g/cm3
S+Ts+SW:	0.0200990 g	Sc2:	g	g	g/cm3
S+Ts:	0.0001080 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0009100 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0209070 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0201180 g	TotSc:	100.00118654 g		
X+Tx:	0.0003240 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0009280 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0209250 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0203300 g				

Final Test Results

Short Term S.D.	-0.0000255 g	True Mass:	100.00019365 g
F-Test Value:	2.91	Conventional Mass:	100.00024970 g
F-Statistic:	0.04443630 g	Mx Correction:	0.00019365 g
Sc True Mass:	100.00123181 g	CMx Correction:	0.00024970 g
Sc - NIST:	0.00004527 g	Tolerance Class:	F1
Air Density:	0.00119882 g/cm3	Tolerance:	0.0005 g
Uncer of Calib:	0.00003679 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: 15

Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

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Page 6 of 25

Serial #:	FSCP-3A14	Temperature:	20.8 °C
Weight #:	6	Pressure:	761 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	50 g	Comparator Used:	AT106_50g
Density:	8.03 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:	0.0026850 g	S: 50grl	50.000063 g	0.000014 g	7.95 g/cm3
X+Tx:	0.0027250 g	SW: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx+SW:	0.0227220 g	Sc1: 50gp	50.00061144 g	0.00001127 g	7.8 g/cm3
S+Ts+SW:	0.0226940 g	Sc2:	g	g	g/cm3
S+Ts:	0.0027020 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0031070 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0231050 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0227060 g	TotSc:	50.00061144 g		
X+Tx:	0.0027350 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0031170 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0231130 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0227380 g				

Final Test Results

Short Term S.D.	-0.00000608 g	True Mass:	50.00001844 g
F-Test Value:	3	Conventional Mass:	50.00004646 g
F-Statistic:	0.23556412 g	Mx Correction:	0.00001844 g
Sc True Mass:	50.00061325 g	CMx Correction:	0.00004646 g
Sc - NIST:	0.00000181 g	Tolerance Class:	F1
Air Density:	0.00119749 g/cm3	Tolerance:	0.0003 g
Uncer of Calib:	0.00002939 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

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 Area 15

NE Cert No: 20140026

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P.O. No:

Observer: CEO

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Page 7 of 25

Serial #: FSCP-3A14  
 Weight #: 7  
 Retest #: 0  
 Denomination: 20 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 20 g

Temperature: 20.9 °C  
 Pressure: 761 mm/Hg  
 Rel Humidity: 48 %  
 Comparator Used: AT106\_20g  
 Pooled Std.Dev.: 0.0000058 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000080 g	S: 20grl	20.000044 g	0.0000061 g	7.95 g/cm3
X+Tx:	0.0001040 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0201010 g	Sc1: 20gp*	20.00017842 g	0.00001448 g	7.8 g/cm3
S+Ts+SW:	0.0200150 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000260 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0001110 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0201080 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200320 g	TotSc:	20.00017842 g		
X+Tx:	0.0001280 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001230 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0201190 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0201300 g				

Final Test Results

Short Term S.D.	-0.00000144 g	True Mass:	20.00010414 g
F-Test Value:	3	Conventional Mass:	20.00011535 g
F-Statistic:	0.06283900 g	Mx Correction:	0.00010414 g
Sc True Mass:	20.00018323 g	CMx Correction:	0.00011535 g
Sc - NIST:	0.00000481 g	Tolerance Class:	F1
Air Density:	0.00119705 g/cm3	Tolerance:	0.00025 g
Uncer of Calib:	0.00001571 g		

Accept/Reject: A

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

Form No.: NE04LF3-R00

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 Area 15

NE Cert No: 20140026

Date: 3/21/2014

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Page 8 of 25

Serial #: FSCP-3A14  
 Weight #: 8  
 Retest #: 0  
 Denomination: 20 g\*  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 20 g

Temperature: 21 °C  
 Pressure: 761 mm/Hg  
 Rel Humidity: 48 %  
 Comparator Used: AT106\_20g  
 Pooled Std.Dev.: 0.0000058 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000540 g	S: 20grl	20.000044 g	0.0000061 g	7.95 g/cm3
X+Tx:	0.0000550 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0200520 g	Sc1: 20gp*	20.00017842 g	0.00001448 g	7.8 g/cm3
S+Ts+SW:	0.0200590 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000660 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0001490 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0201460 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200710 g	TotSc:	20.00017842 g		
X+Tx:	0.0000750 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001590 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0201540 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0200750 g				

Final Test Results

Short Term S.D.	0.0000028 g	True Mass:	20.00001117 g
F-Test Value:	3	Conventional Mass:	20.00002238 g
F-Statistic:	0.00243304 g	Mx Correction:	0.00001117 g
Sc True Mass:	20.00018072 g	CMx Correction:	0.00002238 g
Sc - NIST:	0.00000230 g	Tolerance Class:	F1
Air Density:	0.00119661 g/cm3	Tolerance:	0.00025 g
Uncer of Calib:	0.00001571 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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 Area 15

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Page 9 of 25

Serial #:	FSCP-3A14	Temperature:	21.1 °C
Weight #:	9	Pressure:	761 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	10 g	Comparator Used:	AT106_10g
Density:	8.03 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:	0.0000020 g	S: 10grl	10.0000237 g	0.0000045 g	7.95 g/cm3
X+Tx:	0.0000410 g	SW: 20mgrl	0.01999186 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0200320 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:	0.0000130 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0001080 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0201000 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0200090 g	TotSc:	10.00014973 g		
X+Tx:	0.0000590 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001210 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0201140 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0200580 g				

Final Test Results

Short Term S.D.	-0.00000115 g	True Mass:	10.00004404 g
F-Test Value:	2.91	Conventional Mass:	10.00004965 g
F-Statistic:	0.03894430 g	Mx Correction:	0.00004404 g
Sc True Mass:	10.00014631 g	CMx Correction:	0.00004965 g
Sc - NIST:	-0.00000342 g	Tolerance Class:	F1
Air Density:	0.00119617 g/cm3	Tolerance:	0.0002 g
Uncer of Calib:	0.00001887 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: 15  
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 Area 15

NE Cert No: 20140026  
 Date: 3/21/2014  
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Page 10 of 25

Serial #: FSCP-3A14  
 Weight #: 10  
 Retest #: 0  
 Denomination: 5 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 5 g

Temperature: 19.7 °C  
 Pressure: 768 mm/Hg  
 Rel Humidity: 38 %  
 Comparator Used: CCE6\_5G  
 Pooled Std.Dev.: 0.0000016 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000054 g	S: 5grl	5.0000207 g	0.0000024 g	7.95 g/cm3
X+Tx:	0.0000220 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050269 g	Sc1: 5gp	5.00014749 g	0.00000451 g	7.8 g/cm3
S+Ts+SW:	0.0050115 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000062 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0001228 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0051271 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050119 g	TotSc:	5.00014749 g		
X+Tx:	0.0000223 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0001207 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0051253 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050272 g				

Final Test Results

Short Term S.D.	0.00000096 g	True Mass:	5.00002964 g
F-Test Value:	3	Conventional Mass:	5.00003245 g
F-Statistic:	0.37249007 g	Mx Correction:	0.00002964 g
Sc True Mass:	5.00015076 g	CMx Correction:	0.00003245 g
Sc - NIST:	0.00000327 g	Tolerance Class:	F1
Air Density:	0.00121448 g/cm3	Tolerance:	0.00015 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

Agency ID: 15

Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

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Page 11 of 25

Serial #: FSCP-3A14  
 Weight #: 11  
 Retest #: 0  
 Denomination: 2 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 2 g

Temperature: 19.6 °C  
 Pressure: 768 mm/Hg  
 Rel Humidity: 41 %  
 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: 2grl	2.000013 g	0.0000013 g	7.95 g/cm3
X+Tx:	0.0000116 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050162 g	Sc1: 2gp*	2.00004556 g	0.00000451 g	7.8 g/cm3
S+Ts+SW:	0.0050046 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000016 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000251 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050298 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050050 g	TotSc:	2.00004556 g		
X+Tx:	0.0000118 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000246 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050292 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050161 g				

Final Test Results

Short Term S.D.	0.00000061 g	True Mass:	2.00002206 g
F-Test Value:	3	Conventional Mass:	2.00002318 g
F-Statistic:	0.14926129 g	Mx Correction:	0.00002206 g
Sc True Mass:	2.00004428 g	CMx Correction:	0.00002318 g
Sc - NIST:	-0.00000128 g	Tolerance Class:	F1
Air Density:	0.00121461 g/cm3	Tolerance:	0.00012 g
Uncer of Calib:	0.00000542 g		

Accept/Reject: A

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

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Page 12 of 25

Serial #:	FSCP-3A14	Temperature:	20.1 °C
Weight #:	12	Pressure:	767.7 mm/Hg
Retest #:	0	Rel Humidity:	45.5 %
Denomination:	2 g*	Comparator Used:	CCE6_5G
Density:	8.03 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:	-0.0000382 g	S: 2grl	2.000013 g	0.0000013 g	7.95 g/cm3
X+Tx:	-0.0000327 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0049728 g	Sc1: 2gp*	2.00004556 g	0.00000451 g	7.8 g/cm3
S+Ts+SW:	0.0049691 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000354 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000077 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0049981 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0049733 g	TotSc:	2.00004556 g		
X+Tx:	-0.0000266 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000049 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050008 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0049806 g				

Final Test Results

Short Term S.D.	0.00000040 g		True Mass:	2.00001480 g
F-Test Value:	3		Conventional Mass:	2.00001592 g
F-Statistic:	0.06624005 g	*PASSED*	Mx Correction:	0.00001480 g
Sc True Mass:	2.00004488 g		CMx Correction:	0.00001592 g
Sc - NIST:	-0.00000068 g		Tolerance Class:	F1
Air Density:	0.00121145 g/cm3		Tolerance:	0.00012 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: 15  
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 Area 15

NE Cert No: 20140026  
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 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

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Page 13 of 25

Serial #: FSCP-3A14  
 Weight #: 13  
 Retest #: 0  
 Denomination: 1 g  
 Density: 8.03 g/cm3  
 Eq Wt/grams: 1 g

Temperature: 20 °C  
 Pressure: 767.8 mm/Hg  
 Rel Humidity: 47 %  
 Comparator Used: CCE6\_1G  
 Pooled Std.Dev.: 0.0000011 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000009 g	S: 1grl	1.000011 g	0.0000012 g	7.95 g/cm3
X+Tx:	0.0000238 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050286 g	Sc1: 1gp	1.00001007 g	0.00000373 g	7.8 g/cm3
S+Ts+SW:	0.0050043 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000012 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000037 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050009 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050043 g	TotSc:	1.00001007 g		
X+Tx:	0.0000238 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000043 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050005 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050284 g				

Final Test Results

Short Term S.D.	0.0000032 g	True Mass:	1.00003417 g
F-Test Value:	3	Conventional Mass:	1.00003473 g
F-Statistic:	0.08860337 g	Mx Correction:	0.00003417 g
Sc True Mass:	1.00001080 g	CMx Correction:	0.00003473 g
Sc - NIST:	0.00000073 g	Tolerance Class:	F1
Air Density:	0.00121189 g/cm3	Tolerance:	0.0001 g
Uncer of Calib:	0.00000328 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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 P.O. No:  
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Page 14 of 25

Serial #: FSCP-3A14  
 Weight #: 14  
 Retest #: 0  
 Denomination: 500 mg  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.5 g

Temperature: 19.9 °C  
 Pressure: 767.5 mm/Hg  
 Rel Humidity: 46.5 %  
 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: 500mgrl	0.50000305 g	0.00000097 g	7.95 g/cm3
X+Tx:	0.0000119 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050171 g	Sc1: 500mgp	0.49991389 g	0.00000318 g	16.6 g/cm3
S+Ts+SW:	0.0050046 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000012 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000525 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0049526 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050039 g	TotSc:	0.49991389 g		
X+Tx:	0.0000105 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000537 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0049512 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050155 g				

Final Test Results

Short Term S.D.	0.00000035 g	True Mass:	0.50001560 g
F-Test Value:	3	Conventional Mass:	0.50001513 g
F-Statistic:	0.10646969 g	Mx Correction:	0.00001560 g
Sc True Mass:	0.49991183 g	CMx Correction:	0.00001513 g
Sc - NIST:	-0.00000206 g	Tolerance Class:	F1
Air Density:	0.00121191 g/cm3	Tolerance:	0.00008 g
Uncer of Calib:	0.00000320 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: 15

Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 15 of 25

Serial #:	FSCP-3A14	Temperature:	20.2 °C
Weight #:	15	Pressure:	767.3 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	200 mg	Comparator Used:	CCE6_1G
Density:	7.95 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:	-0.0000007 g	S: 200mgrl	0.19999951 g	0.00000079 g	7.95 g/cm3
X+Tx:	0.0000156 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050211 g	Sc1: 200mgp*	0.1999863 g	0.0000003 g	16.6 g/cm3
S+Ts+SW:	0.0050056 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000003 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000015 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050043 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050070 g	TotSc:	0.1999863 g		
X+Tx:	0.0000183 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000003 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050060 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050244 g				

Final Test Results

Short Term S.D.	0.00000003 g		True Mass:	0.20001543 g
F-Test Value:	3		Conventional Mass:	0.20001524 g
F-Statistic:	0.00071512 g	*PASSED*	Mx Correction:	0.00001543 g
Sc True Mass:	0.19998138 g		CMx Correction:	0.00001524 g
Sc - NIST:	-0.00000492 g		Tolerance Class:	F1
Air Density:	0.00121021 g/cm3		Tolerance:	0.00006 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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 Area 15

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Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 16 of 25

Serial #: FSCP-3A14  
 Weight #: 16  
 Retest #: 0  
 Denomination: 200 mg\*  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.2 g

Temperature: 20.3 °C  
 Pressure: 767.2 mm/Hg  
 Rel Humidity: 46.5 %  
 Comparator Used: CCE6\_1G  
 Pooled Std.Dev.: 0.0000011 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000035 g	S: 200mgrl	0.19999951 g	0.00000079 g	7.95 g/cm3
X+Tx:	0.0000161 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050214 g	Sc1: 200mgp*	0.1999863 g	0.0000003 g	16.6 g/cm3
S+Ts+SW:	0.0050085 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000032 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000013 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050065 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050084 g	TotSc:	0.1999863 g		
X+Tx:	0.0000157 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000010 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050062 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050209 g				

Final Test Results

Short Term S.D.	0.00000003 g	True Mass:	0.20001228 g
F-Test Value:	3	Conventional Mass:	0.20001209 g
F-Statistic:	0.00073994 g	Mx Correction:	0.00001228 g
Sc True Mass:	0.19998173 g	CMx Correction:	0.00001209 g
Sc - NIST:	-0.00000457 g	Tolerance Class:	F1
Air Density:	0.00120966 g/cm3	Tolerance:	0.00006 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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 Date: 3/21/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 17 of 25

Serial #: FSCP-3A14  
 Weight #: 17  
 Retest #: 0  
 Denomination: 100 mg  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.1 g

Temperature: 20.2 °C  
 Pressure: 767.2 mm/Hg  
 Rel Humidity: 48 %  
 Comparator Used: CCE6\_100MG  
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000008 g	S: 100mgrl	0.0999982 g	0.00000092 g	7.95 g/cm3
X+Tx:	0.0000124 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050172 g	Sc1: 100mgp	0.10000537 g	0.00000029 g	16.6 g/cm3
S+Ts+SW:	0.0050036 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000018 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000126 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050174 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050022 g	TotSc:	0.10000537 g		
X+Tx:	0.0000103 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000118 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050167 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050148 g				

Final Test Results

Short Term S.D.	-0.00000017 g	True Mass:	0.10001150 g
F-Test Value:	3	Conventional Mass:	0.10001141 g
F-Statistic:	0.02932668 g	Mx Correction:	0.00001150 g
Sc True Mass:	0.10000517 g	CMx Correction:	0.00001141 g
Sc - NIST:	-0.00000020 g	Tolerance Class:	F1
Air Density:	0.00120995 g/cm3	Tolerance:	0.00005 g
Uncer of Calib:	0.00000316 g		

Accept/Reject: A

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

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Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 18 of 25

Serial #: FSCP-3A14  
 Weight #: 18  
 Retest #: 0  
 Denomination: 50 mg  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.05 g

Temperature: 20.1 °C  
 Pressure: 772 mm/Hg  
 Rel Humidity: 45 %  
 Comparator Used: CCE6\_100MG  
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000013 g	S: 50mgrl	0.05000374 g	0.00000048 g	7.95 g/cm3
X+Tx:	-0.0000027 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050038 g	Sc1: 50mgp	0.05000104 g	0.00000289 g	16.6 g/cm3
S+Ts+SW:	0.0050097 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000059 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000097 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050163 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050156 g	TotSc:	0.05000104 g		
X+Tx:	0.0000071 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000148 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050211 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050159 g				

Final Test Results

Short Term S.D.	0.0000043 g	True Mass:	0.04999904 g
F-Test Value:	3	Conventional Mass:	0.04999899 g
F-Statistic:	0.18306057 g	Mx Correction:	-0.00000096 g
Sc True Mass:	0.05000175 g	CMx Correction:	-0.00000101 g
Sc - NIST:	0.00000071 g	Tolerance Class:	F1
Air Density:	0.00121832 g/cm3	Tolerance:	0.00004 g
Uncer of Calib:	0.00000306 g		

Accept/Reject: A

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

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Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 19 of 25

Serial #: FSCP-3A14  
 Weight #: 19  
 Retest #: 0  
 Denomination: 20 mg  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.02 g

Temperature: 19.6 °C  
 Pressure: 772 mm/Hg  
 Rel Humidity: 46 %  
 Comparator Used: CCE6\_100MG  
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000004 g	S: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx:	0.0000260 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050314 g	Sc1: 20mgp	0.02001115 g	0.00000032 g	7.95 g/cm3
S+Ts+SW:	0.0050060 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000009 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000142 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050195 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050066 g	TotSc:	0.02001115 g		
X+Tx:	0.0000268 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000143 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050190 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050305 g				

Final Test Results

Short Term S.D.	-0.00000023 g	True Mass:	0.02001723 g
F-Test Value:	3	Conventional Mass:	0.02001721 g
F-Statistic:	0.05163096 g	Mx Correction:	0.00001723 g
Sc True Mass:	0.02000509 g	CMx Correction:	0.00001721 g
Sc - NIST:	-0.00000606 g	Tolerance Class:	F1
Air Density:	0.00122044 g/cm3	Tolerance:	0.00003 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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NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 20 of 25

Serial #: FSCP-3A14  
 Weight #: 20  
 Retest #: 0  
 Denomination: 20 mg\*  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.02 g

Temperature: 19.6 °C  
 Pressure: 772 mm/Hg  
 Rel Humidity: 46 %  
 Comparator Used: CCE6\_100MG  
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000003 g	S: 20mgrl	0.01999186 g	0.00000023 g	7.95 g/cm3
X+Tx:	0.0000113 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050161 g	Sc1: 20mgp	0.02001115 g	0.00000032 g	7.95 g/cm3
S+Ts+SW:	0.0050038 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000020 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000110 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050159 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050020 g	TotSc:	0.02001115 g		
X+Tx:	0.0000083 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000093 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050140 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050123 g				

Final Test Results

Short Term S.D.	0.00000009 g	True Mass:	0.02000386 g
F-Test Value:	3	Conventional Mass:	0.02000384 g
F-Statistic:	0.00730443 g	Mx Correction:	0.00000386 g
Sc True Mass:	0.02000526 g	CMx Correction:	0.00000384 g
Sc - NIST:	-0.00000589 g	Tolerance Class:	F1
Air Density:	0.00122044 g/cm3	Tolerance:	0.00003 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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NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 21 of 25

Serial #: FSCP-3A14  
 Weight #: 21  
 Retest #: 0  
 Denomination: 10 mg  
 Density: 7.95 g/cm3  
 Eq Wt/grams: 0.01 g

Temperature: 19.9 °C  
 Pressure: 772 mm/Hg  
 Rel Humidity: 46 %  
 Comparator Used: CCE6\_10MG  
 Pooled Std.Dev.: 0.0000014 g

Observations

State Standard Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000011 g	S: 10mgrl	0.01000613 g	0.00000021 g	7.95 g/cm3
X+Tx:	0.0000042 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050110 g	Sc1: 10mgp	0.01000819 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0050096 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000054 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000091 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050152 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050133 g	TotSc:	0.01000819 g		
X+Tx:	0.0000113 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000122 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050179 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050181 g				

Final Test Results

Short Term S.D.	0.00000012 g	True Mass:	0.01000845 g
F-Test Value:	3	Conventional Mass:	0.01000844 g
F-Statistic:	0.00710305 g	Mx Correction:	0.00000845 g
Sc True Mass:	0.01000886 g	CMx Correction:	0.00000844 g
Sc - NIST:	0.00000067 g	Tolerance Class:	F1
Air Density:	0.00121910 g/cm3	Tolerance:	0.000025 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A



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

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 Date: 3/21/2014  
 P.O. No:  
 Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 22 of 25

Serial #: FSCP-3A14  
 Weight #: 22  
 Retest #: 0  
 Denomination: 5 mg  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.005 g

Temperature: 20 °C  
 Pressure: 772.1 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:	0.0000015 g	S: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx:	-0.0000055 g	SW: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0019978 g	Sc1: 5mgp	0.00501219 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0020051 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000018 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000086 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0020118 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0020046 g	TotSc:	0.00501219 g		
X+Tx:	-0.0000061 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000077 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0020111 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0019970 g				

Final Test Results

Short Term S.D.	0.00000012 g	True Mass:	0.00499977 g
F-Test Value:	3	Conventional Mass:	0.00499829 g
F-Statistic:	0.00715990 g	Mx Correction:	-0.00000023 g
Sc True Mass:	0.00501229 g	CMx Correction:	-0.00000171 g
Sc - NIST:	0.00000010 g	Tolerance Class:	F1
Air Density:	0.00121871 g/cm3	Tolerance:	0.00002 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A

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

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Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 23 of 25

Serial #: FSCP-3A14  
 Weight #: 23  
 Retest #: 0  
 Denomination: 2 mg  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.002 g

Temperature: 19.9 °C  
 Pressure: 772 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:	0.0000000 g	S: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx:	0.0000067 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050119 g	Sc1: 2mgp	0.00201223 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0050052 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000002 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000095 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050149 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050062 g	TotSc:	0.00201223 g		
X+Tx:	0.0000080 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000107 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050161 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050136 g				

Final Test Results

Short Term S.D.	-0.00000017 g	True Mass:	0.00201061 g
F-Test Value:	3	Conventional Mass:	0.00201002 g
F-Statistic:	0.01596907 g	Mx Correction:	0.00001061 g
Sc True Mass:	0.00201251 g	CMx Correction:	0.00001002 g
Sc - NIST:	0.00000028 g	Tolerance Class:	F1
Air Density:	0.00121900 g/cm3	Tolerance:	0.00002 g
Uncer of Calib:	0.00000350 g		

Accept/Reject: A

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P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 24 of 25

Serial #: FSCP-3A14  
 Weight #: 24  
 Retest #: 0  
 Denomination: 2 mg\*  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.002 g

Temperature: 19.9 °C  
 Pressure: 772 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:	0.0000018 g	S: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx:	0.0000041 g	SW: 5mgrl	0.00500536 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0050093 g	Sc1: 2mgp	0.00201223 g	0.00000023 g	7.95 g/cm3
S+Ts+SW:	0.0050073 g	Sc2:	g	g	g/cm3
S+Ts:	0.0000022 g	Sc3:	g	g	g/cm3
Sc+Tsc:	0.0000116 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0050167 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0050078 g	TotSc:	0.00201223 g		
X+Tx:	0.0000045 g	Ts:	g	g	g/cm3
Sc+TSc:	0.0000116 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0050165 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0050095 g				

Final Test Results

Short Term S.D.	-0.00000003 g	True Mass:	0.00200614 g
F-Test Value:	3	Conventional Mass:	0.00200555 g
F-Statistic:	0.00044709 g	Mx Correction:	0.00000614 g
Sc True Mass:	0.00201258 g	CMx Correction:	0.00000555 g
Sc - NIST:	0.00000035 g	Tolerance Class:	F1
Air Density:	0.00121900 g/cm3	Tolerance:	0.00002 g
Uncer of Calib:	0.00000350 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: 15

Agency: Food Safety & Consumer Protection  
 Area 15

NE Cert No: 20140026

Date: 3/21/2014

P.O. No:

Observer: CEO

Submitted By: Kent McConnell

Electronic Copy

Page 25 of 25

Serial #: FSCP-3A14  
 Weight #: 25  
 Retest #: 0  
 Denomination: 1 mg  
 Density: 2.7 g/cm3  
 Eq Wt/grams: 0.001 g

Temperature: 20.2 °C  
 Pressure: 771.8 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:	-0.0000008 g	S: 1mgrl	0.00100509 g	0.00000025 g	7.95 g/cm3
X+Tx:	0.0000059 g	SW: 2mgrl	0.00200341 g	0.00000021 g	7.95 g/cm3
X+Tx+SW:	0.0020089 g	Sc1: 1mgp	0.00099541 g	0.00000214 g	7.95 g/cm3
S+Ts+SW:	0.0020015 g	Sc2:	g	g	g/cm3
S+Ts:	-0.0000020 g	Sc3:	g	g	g/cm3
Sc+Tsc:	-0.0000016 g	Sc4:	g	g	g/cm3
Sc+Tsc+SW:	0.0020016 g	Sc5:	g	g	g/cm3
S+Ts+SW:	0.0020009 g	TotSc:	0.00099541 g		
X+Tx:	0.0000046 g	Ts:	g	g	g/cm3
Sc+TSc:	-0.0000019 g	Tx:	g	g	g/cm3
Sc+TSc+SW:	0.0020015 g	Tsc:	g	g	g/cm3
X+Tx+SW:	0.0020075 g				

Final Test Results

Short Term S.D.	-0.00000015 g	True Mass:	0.00101236 g
F-Test Value:	3	Conventional Mass:	0.00101206 g
F-Statistic:	0.01119030 g	Mx Correction:	0.00001236 g
Sc True Mass:	0.00100572 g	CMx Correction:	0.00001206 g
Sc - NIST:	0.00001031 g	Tolerance Class:	F1
Air Density:	0.00121734 g/cm3	Tolerance:	0.00002 g
Uncer of Calib:	0.00000351 g		

Accept/Reject: A