



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 90

Date: 12/19/2011
Agency ID: 90
NE Cert No: 20110139
P.O. No:

Submitted By: Brian Heskin

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
5 gal	05-40547-04	1	VL	A
5 gal	05-40547-05	1	VL	A
5 gal	05-40547-06	1	VL	A
2 lb	10-OPI-9	1	F	A
2 lb	10-OPI-9	2	F	A
2 lb	10-OPI-9	3	F	A
2 lb	10-OPI-9	4	F	A
2 lb	10-OPI-9	5	F	A
2 lb	10-OPI-9	6	F	A
2 lb	10-OPI-9	7	F	A
2 lb	10-OPI-9	8	F	A
2 lb	10-OPI-9	9	F	A
2 lb	10-OPI-9	10	F	A
2 lb	10-OPI-9	11	F	A
2 lb	10-OPI-9	12	F	A
2 lb	10-OPI-9	13	F	A
2 lb	10-OPI-9	14	F	A
1 lb	10-OPI-9	15	F	A
1 lb	10-OPI-9	16	F	A
8 oz	10-OPI-9	17	F	A
4 oz	10-OPI-9	18	F	A
2 oz	10-OPI-9	19	F	A
1 oz	10-OPI-9	20	F	A
0.5 oz	10-OPI-9	21	F	A
0.25 oz	10-OPI-9	22	F	A

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Administration
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Lincoln, NE 68509-4947
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FAX: (402) 471-6876

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Lincoln, NE 68502-5399
(402) 471-2176
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Bureau of Animal Industry
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Lincoln, NE 68509-4787
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Weights and Measures
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FAX: (402) 471-2759

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
0.125 oz	10-OPI-9	23	F	A
0.0625 oz	10-OPI-9	24	F	A
0.0625 oz*	10-OPI-9	25	F	A
8 oz	11A9	17	F	A
4 oz	11A9	18	F	A
2 oz	11A9	19	F	A
1 oz	11A9	20	F	A
0.5 oz	11A9	21	F	A
0.25 oz	11A9	22	F	A
0.125 oz	11A9	23	F	A
0.0625 oz	11A9	24	F	A
0.0625 oz*	11A9	25	F	A
0.2 lb	17649	1	F	A
0.2 lb*	17649	2	F	A
0.1 lb	17649	3	F	A
0.05 lb	17649	4	F	A
0.02 lb	17649	5	F	A
0.02 lb*	17649	6	F	A
0.01 lb	17649	7	F	A
0.005 lb	17649	8	F	A
0.002 lb	17649	9	F	A
0.002 lb*	17649	10	F	A
0.001 lb	17649	11	F	A
5 gal	40702A	1	VL	A
5 gal	40702B	1	VL	A
25 lb	WM25-46	1	F	A
25 lb	WM25-47	1	F	A
25 lb	WM25-88	1	F	A
25 lb	WM25-89	1	F	A
25 lb	WM25-90	1	F	A
25 lb	WM25-91	1	F	A
25 lb	WM25-92	1	F	A
25 lb	WM25-93	1	F	A
25 lb	WM25-94	1	F	A
25 lb	WM25-95	1	F	A
0.3 lb	WM-3G95	1	F	A

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
0.2 lb	WM-3G95	2	F	A
0.1 lb	WM-3G95	3	F	A
0.05 lb	WM-3G95	4	F	A
0.03 lb	WM-3G95	5	F	A
0.02 lb	WM-3G95	6	F	A
0.01 lb	WM-3G95	7	F	A
0.005 lb	WM-3G95	8	F	A
0.003 lb	WM-3G95	9	F	A
0.002 lb	WM-3G95	10	F	A
0.001 lb	WM-3G95	11	F	A
0.001 lb*	WM-3G95	12	F	A
10 lb	WM-6D98	1	F	A
5 lb	WM-6D98	2	F	A
2 lb	WM-6D98	3	F	A
2 lb*	WM-6D98	4	F	A
1 lb	WM-6D98	5	F	A
0.5 lb	WM-6D98	6	F	A
4 kg	WM-7	1	4	A
25 lb	WM-D10	1	F	A
25 lb	WM-D11	1	F	A
25 lb	WM-D12	1	F	A
25 lb	WM-D3	1	F	A
25 lb	WM-D4	1	F	A
25 lb	WM-D5	1	F	A
25 lb	WM-D6	1	F	A
25 lb	WM-D7	1	F	A
25 lb	WM-D8	1	F	A
25 lb	WM-D9	1	F	A
300 g	WM-G89-5	1	4	A
200 g	WM-G89-5	2	4	A
100 g	WM-G89-5	3	4	A
50 g	WM-G89-5	4	4	A
30 g	WM-G89-5	5	4	A
20 g	WM-G89-5	6	4	A
10 g	WM-G89-5	7	4	A
5 g	WM-G89-5	8	4	A
3 g	WM-G89-5	9	4	A
2 g	WM-G89-5	10	4	A
1 g	WM-G89-5	11	4	A
500 mg	WM-G89-5	12	4	A
200 mg	WM-G89-5	13	4	A
200 mg*	WM-G89-5	14	4	A

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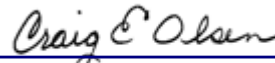
Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
100 mg	WM-G89-5	15	4	A
50 mg	WM-G89-5	16	4	A
20 mg	WM-G89-5	17	4	A
20 mg*	WM-G89-5	18	4	A
10 mg	WM-G89-5	19	4	A
5 mg	WM-G89-5	20	4	A
2 mg	WM-G89-5	21	4	A
2 mg*	WM-G89-5	22	4	A
1 mg	WM-G89-5	23	4	A

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 4 - Double Substitution - Summary Of Test Results

Agency ID: 90

Agency: Food Safety & Consumer Protection
Area 90

NE Cert No: 20110139

Date: 12/19/2011

P.O. No:

Observer: CEO

Form No.: NE04LF7-R00

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
300 g	WM-G89-5	1	300.00217309	300.00125458	0.00014956	CC1201 / 1 kg	300gd
200 g	WM-G89-5	2	200.00202533	200.00141299	0.00014876	CC1201 / 1 kg	200gd
100 g	WM-G89-5	3	100.00044095	100.00013478	0.00006764	AT106_100G	100grl
50 g	WM-G89-5	4	50.00077724	50.00062415	0.00004616	AT106_100G	50grl
30 g	WM-G89-5	5	30.00015355	30.00006170	0.00003999	AT106_100G	30grl
20 g	WM-G89-5	6	20.00061590	20.00055466	0.00003508	AT106_100G	20grl
10 g	WM-G89-5	7	10.00021614	10.00018552	0.00001808	AT106_10G	10grl
5 g	WM-G89-5	8	5.00028613	5.00027082	0.00000721	CCE6_5G	5grl
3 g	WM-G89-5	9	3.00003652	3.00002733	0.00000632	CCE6_5G	3grl
2 g	WM-G89-5	10	2.00025329	2.00024717	0.00000632	CCE6_5G	2grl
1 g	WM-G89-5	11	0.99986608	0.99986302	0.00000355	CCE6_1G	1grl
500 mg	WM-G89-5	12	0.50000087	0.49999934	0.00000271	CCE6_1G	500mgrl
200 mg	WM-G89-5	13	0.20000687	0.20000626	0.00000235	CCE6_1G	200mgrl
200 mg*	WM-G89-5	14	0.19997187	0.19997126	0.00000235	CCE6_1G	200mgrl
100 mg	WM-G89-5	15	0.09997410	0.09997379	0.00000209	CCE6_100MG	100mgrl
50 mg	WM-G89-5	16	0.04993897	0.04993881	0.00000208	CCE6_100MG	50mgrl
20 mg	WM-G89-5	17	0.02002720	0.02002131	0.00000205	CCE6_100MG	20mgrl
20 mg*	WM-G89-5	18	0.02003966	0.02003376	0.00000205	CCE6_100MG	20mgrl
10 mg	WM-G89-5	19	0.01000632	0.01000337	0.00000205	CCE6_10MG	10mgrl
5 mg	WM-G89-5	20	0.00502119	0.00501972	0.00000204	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.

True Mass is the mass value in a vacuum. Conventional Mass is the mass value in a normal air environment. 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.

Nebraska Standards Laboratory
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SOP 4 - Double Substitution - Summary Of Test Results

Agency ID: 90
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Area 90
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Observer: CEO

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
2 mg	WM-G89-5	21	0.00201846	0.00201786	0.00000204	CCE6_10MG	2mgrl
2 mg*	WM-G89-5	22	0.00202010	0.00201951	0.00000204	CCE6_10MG	2mgrl
1 mg	WM-G89-5	23	0.00102121	0.00102091	0.00000203	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.

True Mass is the mass value in a vacuum. Conventional Mass is the mass value in a normal air environment. 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.

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

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 90
 Agency: Food Safety & Consumer Protection
 Area 90
 , -

NE Cert No: 20110139
 Date: 12/19/2011
 P.O. No:
 Observer: CEO

Submitted By: Brian Heskin

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.2 °C
Weight #:	1	Pressure:	761.1 mm/Hg
Retest #:	0	Rel Humidity:	34.5 %
Denomination:	300 g	Comparator Used:	CC1201 / 1 kg
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000738 g
Eq Wt/grams:	300 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0001 g	S: 300gd	300.00088843 g	0.0000219 g	7.85 g/cm3
X+Tx:	0.0012 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.0114 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.01 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	300.00217309 g	Mx Correction:	0.00217309 g
Conventional Mass:	300.00125458 g	CMx Correction:	0.00125458 g
		Tolerance Class:	4
Uncertainty:	0.00014956 g	Tolerance:	0.006 g
Air Density:	0.00119741 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
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SOP 4 - Double Substitution Test Results - Individual Weight

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 Observer: CEO

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.2 °C
Weight #:	2	Pressure:	761.1 mm/Hg
Retest #:	0	Rel Humidity:	34.5 %
Denomination:	200 g	Comparator Used:	CC1201 / 1 kg
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000738 g
Eq Wt/grams:	200 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0001 g	S: 200gd	200.00109475 g	0.00001552 g	7.85 g/cm3
X+Tx:	0.001 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.0111 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0102 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	200.00202533 g	Mx Correction:	0.00202533 g
Conventional Mass:	200.00141299 g	CMx Correction:	0.00141299 g
Uncertainty:	0.00014876 g	Tolerance Class:	4
Air Density:	0.00119741 g/cm3	Tolerance:	0.004 g
		Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.5 °C
Weight #:	3	Pressure:	761.2 mm/Hg
Retest #:	0	Rel Humidity:	29 %
Denomination:	100 g	Comparator Used:	AT106_100G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000156 g
Eq Wt/grams:	100 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000026 g	S: 100grl	100.000135 g	0.00006 g	7.95 g/cm3
X+Tx:	0.000129 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010143 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010058 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	100.00044095 g	Mx Correction:	0.00044095 g
Conventional Mass:	100.00013478 g	CMx Correction:	0.00013478 g
Uncertainty:	0.00006764 g	Tolerance Class:	4
Air Density:	0.00120119 g/cm3	Tolerance:	0.002 g
		Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.5 °C
Weight #:	4	Pressure:	761.2 mm/Hg
Retest #:	0	Rel Humidity:	29 %
Denomination:	50 g	Comparator Used:	AT106_100G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000156 g
Eq Wt/grams:	50 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.002655 g	S: 50grl	50.00007 g	0.000034 g	7.95 g/cm3
X+Tx:	0.003263 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.013274 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.012679 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	50.00077724 g	Mx Correction:	0.00077724 g
Conventional Mass:	50.00062415 g	CMx Correction:	0.00062415 g
		Tolerance Class:	4
Uncertainty:	0.00004616 g	Tolerance:	0.0012 g
Air Density:	0.00120119 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.5 °C
Weight #:	5	Pressure:	761 mm/Hg
Retest #:	0	Rel Humidity:	34 %
Denomination:	30 g	Comparator Used:	AT106_100G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000156 g
Eq Wt/grams:	30 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000006 g	S: 30grl	30.000071 g	0.000025 g	7.95 g/cm3
X+Tx:	0.000031 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010042 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010029 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	30.00015355 g	Mx Correction:	0.00015355 g
Conventional Mass:	30.00006170 g	CMx Correction:	0.00006170 g
Uncertainty:	0.00003999 g	Tolerance Class:	4
Air Density:	0.00120033 g/cm3	Tolerance:	0.0009 g
		Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.5 °C
Weight #:	6	Pressure:	761 mm/Hg
Retest #:	0	Rel Humidity:	34 %
Denomination:	20 g	Comparator Used:	AT106_100G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000156 g
Eq Wt/grams:	20 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000002 g	S: 20grl	20.000044 g	0.000016 g	7.95 g/cm3
X+Tx:	0.000533 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010539 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010011 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	20.00061590 g	Mx Correction:	0.00061590 g
Conventional Mass:	20.00055466 g	CMx Correction:	0.00055466 g
		Tolerance Class:	4
Uncertainty:	0.00003508 g	Tolerance:	0.0007 g
Air Density:	0.00120033 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.5 °C
Weight #:	7	Pressure:	761 mm/Hg
Retest #:	0	Rel Humidity:	34 %
Denomination:	10 g	Comparator Used:	AT106_10G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000079 g
Eq Wt/grams:	10 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000002 g	S: 10grl	10.0000145 g	0.0000086 g	7.95 g/cm3
X+Tx:	0.000188 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010197 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010022 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	10.00021614 g	Mx Correction:	0.00021614 g
Conventional Mass:	10.00018552 g	CMx Correction:	0.00018552 g
		Tolerance Class:	4
Uncertainty:	0.00001808 g	Tolerance:	0.0005 g
Air Density:	0.00120033 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.6 °C
Weight #:	8	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	40 %
Denomination:	5 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000025 g
Eq Wt/grams:	5 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000066 g	S: 5grl	5.0000192 g	0.0000048 g	7.95 g/cm3
X+Tx:	0.0002658 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0052724 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.005019 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	5.00028613 g	Mx Correction:	0.00028613 g
Conventional Mass:	5.00027082 g	CMx Correction:	0.00027082 g
		Tolerance Class:	4
Uncertainty:	0.00000721 g	Tolerance:	0.00036 g
Air Density:	0.00121189 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 90
 Agency: Food Safety & Consumer Protection
 Area 90
 , -

NE Cert No: 20110139
 Date: 12/19/2011
 P.O. No:
 Observer: CEO

Submitted By: Brian Heskin

Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.6 °C
Weight #:	9	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	40 %
Denomination:	3 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000025 g
Eq Wt/grams:	3 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000016 g	S: 3grl	3.0000143 g	0.0000033 g	7.95 g/cm3
X+Tx:	0.0000138 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050192 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.005003 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	3.00003652 g	Mx Correction:	0.00003652 g
Conventional Mass:	3.00002733 g	CMx Correction:	0.00002733 g
Uncertainty:	0.00000632 g	Tolerance Class:	4
Air Density:	0.00121189 g/cm3	Tolerance:	0.0003 g
		Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.6 °C
Weight #:	10	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	40 %
Denomination:	2 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000025 g
Eq Wt/grams:	2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000002 g	S: 2grl	2.0000129 g	0.0000033 g	7.95 g/cm3
X+Tx:	0.0002366 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0052427 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050072 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	2.00025329 g	Mx Correction:	0.00025329 g
Conventional Mass:	2.00024717 g	CMx Correction:	0.00024717 g
Uncertainty:	0.00000632 g	Tolerance Class:	4
Air Density:	0.00121189 g/cm3	Tolerance:	0.00026 g
		Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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Submitted By: Brian Heskin

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.9 °C
Weight #:	11	Pressure:	769.1 mm/Hg
Retest #:	0	Rel Humidity:	42 %
Denomination:	1 g	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000004 g
Eq Wt/grams:	1 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000082 g	S: 1grl	1.0000093 g	0.0000028 g	7.95 g/cm3
X+Tx:	-0.0001482 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0048569 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050076 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.99986608 g	Mx Correction:	-0.00013392 g
Conventional Mass:	0.99986302 g	CMx Correction:	-0.00013698 g
		Tolerance Class:	4
Uncertainty:	0.00000355 g	Tolerance:	0.0002 g
Air Density:	0.00121051 g/cm3	Accept/Reject:	A

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Submitted By: Brian Heskin

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Form No.: NE04LF6-R00

Serial #: WM-G89-5
 Weight #: 12
 Retest #: 0
 Denomination: 500 mg
 Density: 7.84 g/cm³
 Eq Wt/grams: 0.5 g

Temperature: 20.9 °C
 Pressure: 769.1 mm/Hg
 Rel Humidity: 42 %
 Comparator Used: CCE6_1G
 Pooled Std.Dev.: 0.0000004 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 500mgrl	0.5000051 g	0.0000016 g	7.95 g/cm ³
X+Tx:	-0.0000056 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0050024 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050075 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.50000087 g	Mx Correction:	0.00000087 g
Conventional Mass:	0.49999934 g	CMx Correction:	-0.00000066 g
Uncertainty:	0.00000271 g	Tolerance Class:	4
Air Density:	0.00121051 g/cm ³	Tolerance:	0.00016 g
		Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 Observer: CEO

Submitted By: Brian Heskin

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	20.9 °C
Weight #:	13	Pressure:	769.1 mm/Hg
Retest #:	0	Rel Humidity:	42 %
Denomination:	200 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000004 g
Eq Wt/grams:	0.2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000025 g	S: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx:	0.0000061 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050109 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0049984 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.20000687 g	Mx Correction:	0.00000687 g
Conventional Mass:	0.20000626 g	CMx Correction:	0.00000626 g
		Tolerance Class:	4
Uncertainty:	0.00000235 g	Tolerance:	0.00012 g
Air Density:	0.00121051 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 Observer: CEO

Submitted By: Brian Heskin

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.4 °C
Weight #:	14	Pressure:	767 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	200 mg*	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000004 g
Eq Wt/grams:	0.2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000179 g	S: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx:	-0.0000558 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049507 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0049667 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.19997187 g	Mx Correction:	-0.00002813 g
Conventional Mass:	0.19997126 g	CMx Correction:	-0.00002874 g
		Tolerance Class:	4
Uncertainty:	0.00000235 g	Tolerance:	0.00012 g
Air Density:	0.00120443 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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Form No.: NE04LF6-R00

Serial #: WM-G89-5
 Weight #: 15
 Retest #: 0
 Denomination: 100 mg
 Density: 7.84 g/cm³
 Eq Wt/grams: 0.1 g

Temperature: 21.4 °C
 Pressure: 767 mm/Hg
 Rel Humidity: 47 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000001 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000006 g	S: 100mgrl	0.09999738 g	0.0000006 g	7.95 g/cm ³
X+Tx:	-0.0000213 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0049853 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.005005 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.09997410 g	Mx Correction:	-0.00002590 g
Conventional Mass:	0.09997379 g	CMx Correction:	-0.00002621 g
Uncertainty:	0.00000209 g	Tolerance Class:	4
Air Density:	0.00120443 g/cm ³	Tolerance:	0.0001 g
		Accept/Reject:	A

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 Observer: CEO

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.4 °C
Weight #:	16	Pressure:	767 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	50 mg	Comparator Used:	CCE6_100MG
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.05 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000067 g	S: 50mg/l	0.05000221 g	0.00000055 g	7.95 g/cm3
X+Tx:	-0.0000558 g	SW: 5mg/l	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049494 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050136 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.04993897 g	Mx Correction:	-0.00006103 g
Conventional Mass:	0.04993881 g	CMx Correction:	-0.00006119 g
		Tolerance Class:	4
Uncertainty:	0.00000208 g	Tolerance:	0.000085 g
Air Density:	0.00120443 g/cm3	Accept/Reject:	A

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Serial #: WM-G89-5
 Weight #: 17
 Retest #: 0
 Denomination: 20 mg
 Density: 2.7 g/cm³
 Eq Wt/grams: 0.02 g

Temperature: 21.5 °C
 Pressure: 766.5 mm/Hg
 Rel Humidity: 47.5 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000001 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000018 g	S: 20mg/l	0.02000601 g	0.00000041 g	7.95 g/cm ³
X+Tx:	0.0000113 g	SW: 5mg/l	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0050167 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0049992 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.02002720 g	Mx Correction:	0.00002720 g
Conventional Mass:	0.02002131 g	CMx Correction:	0.00002131 g
Uncertainty:	0.00000205 g	Tolerance Class:	4
Air Density:	0.00120314 g/cm ³	Tolerance:	0.00007 g
		Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 P.O. No:
 Observer: CEO

Submitted By: Brian Heskin

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.5 °C
Weight #:	18	Pressure:	766.5 mm/Hg
Retest #:	0	Rel Humidity:	47.5 %
Denomination:	20 mg*	Comparator Used:	CCE6_100MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.02 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000099 g	S: 20mgrl	0.02000601 g	0.00000041 g	7.95 g/cm3
X+Tx:	0.00002 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050251 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0049995 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.02003966 g	Mx Correction:	0.00003966 g
Conventional Mass:	0.02003376 g	CMx Correction:	0.00003376 g
		Tolerance Class:	4
Uncertainty:	0.00000205 g	Tolerance:	0.00007 g
Air Density:	0.00120314 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-5	Temperature:	21.5 °C
Weight #:	19	Pressure:	766.5 mm/Hg
Retest #:	0	Rel Humidity:	47.5 %
Denomination:	10 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.01 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000033 g	S: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx:	-0.0000006 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050063 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050085 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.01000632 g	Mx Correction:	0.00000632 g
Conventional Mass:	0.01000337 g	CMx Correction:	0.00000337 g
		Tolerance Class:	4
Uncertainty:	0.00000205 g	Tolerance:	0.00006 g
Air Density:	0.00120314 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.5 °C
Weight #:	20	Pressure:	766.1 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	5 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.005 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000035 g	S: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx:	0.0000053 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030089 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0029888 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00502119 g	Mx Correction:	0.00002119 g
Conventional Mass:	0.00501972 g	CMx Correction:	0.00001972 g
		Tolerance Class:	4
Uncertainty:	0.00000204 g	Tolerance:	0.000055 g
Air Density:	0.00120257 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-5	Temperature:	21.5 °C
Weight #:	21	Pressure:	766.1 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	2 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.002 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000106 g	S: 2mgrl	0.00199491 g	0.00000034 g	7.95 g/cm3
X+Tx:	0.0000303 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030331 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030069 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00201846 g	Mx Correction:	0.00001846 g
Conventional Mass:	0.00201786 g	CMx Correction:	0.00001786 g
		Tolerance Class:	4
Uncertainty:	0.00000204 g	Tolerance:	0.00005 g
Air Density:	0.00120257 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.5 °C
Weight #:	22	Pressure:	766.1 mm/Hg
Retest #:	0	Rel Humidity:	47 %
Denomination:	2 mg*	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.002 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000071 g	S: 2mgrl	0.00199491 g	0.00000034 g	7.95 g/cm3
X+Tx:	0.0000324 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030356 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030117 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00202010 g	Mx Correction:	0.00002010 g
Conventional Mass:	0.00201951 g	CMx Correction:	0.00001951 g
		Tolerance Class:	4
Uncertainty:	0.00000204 g	Tolerance:	0.00005 g
Air Density:	0.00120257 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-5	Temperature:	21.4 °C
Weight #:	23	Pressure:	766 mm/Hg
Retest #:	0	Rel Humidity:	48 %
Denomination:	1 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000001 g
Eq Wt/grams:	0.001 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000051 g	S: 1mgrl	0.00100556 g	0.00000033 g	7.95 g/cm3
X+Tx:	0.0000129 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030167 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0029938 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00102121 g	Mx Correction:	0.00002121 g
Conventional Mass:	0.00102091 g	CMx Correction:	0.00002091 g
		Tolerance Class:	4
Uncertainty:	0.00000203 g	Tolerance:	0.00005 g
Air Density:	0.00120273 g/cm3	Accept/Reject:	A

**Nebraska Standards Laboratory
3721 West Cuming Street
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

Agency ID: 90
Agency: Food Safety & Consumer Protection
Area 90
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NE Cert No: 20110139
Date: 12/19/2011
P.O. No:
Observer: CEO

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
10-OPI-9	1	0	2 lb	CC1201_lb	NSL-2-1	-0.0298957 g	0.091 g	0.0022576 g	A
10-OPI-9	2	0	2 lb	CC1201_lb	NSL-2-1	-0.0204957 g	0.091 g	0.0022576 g	A
10-OPI-9	3	0	2 lb	CC1201_lb	NSL-2-1	-0.0130957 g	0.091 g	0.0022576 g	A
10-OPI-9	4	0	2 lb	CC1201_lb	NSL-2-1	-0.0154957 g	0.091 g	0.0022576 g	A
10-OPI-9	5	0	2 lb	CC1201_lb	NSL-2-1	0.0032043 g	0.091 g	0.0022576 g	A
10-OPI-9	6	0	2 lb	CC1201_lb	NSL-2-1	-0.0039957 g	0.091 g	0.0022576 g	A
10-OPI-9	7	0	2 lb	CC1201_lb	NSL-2-1	0.0170043 g	0.091 g	0.0022576 g	A
10-OPI-9	8	0	2 lb	CC1201_lb	NSL-2-1	0.0137043 g	0.091 g	0.0022576 g	A
10-OPI-9	9	0	2 lb	CC1201_lb	NSL-2-1	-0.0590957 g	0.091 g	0.0022576 g	A
10-OPI-9	10	0	2 lb	CC1201_lb	NSL-2-1	0.0195043 g	0.091 g	0.0022576 g	A
10-OPI-9	11	0	2 lb	CC1201_lb	NSL-2-1	0.0306043 g	0.091 g	0.0022576 g	A
10-OPI-9	12	0	2 lb	CC1201_lb	NSL-2-1	-0.0265957 g	0.091 g	0.0022576 g	A
10-OPI-9	13	0	2 lb	CC1201_lb	NSL-2-1	0.0250043 g	0.091 g	0.0022576 g	A
10-OPI-9	14	0	2 lb	CC1201_lb	NSL-2-1	-0.0014957 g	0.091 g	0.0022576 g	A
10-OPI-9	15	0	1 lb	CC1201_lb	NSL-1-1	-0.0111727 g	0.07 g	0.0022464 g	A
10-OPI-9	16	0	1 lb	CC1201_lb	NSL-1-1	-0.0165727 g	0.07 g	0.0022464 g	A
10-OPI-9	17	0	8 oz	CC1201_lb	NSL-8-1	-0.0204671 g	0.045 g	0.0022441 g	A
10-OPI-9	18	0	4 oz	CC1201_lb	NSL-Z	0.0079960 g	0.023 g	0.0022413 g	A
10-OPI-9	19	0	2 oz	AT106_lb	NSL-Y	0.0028602 g	0.011 g	0.0000637 g	A
10-OPI-9	20	0	1 oz	AT106_lb	2A9-1oz	-0.0040401 g	0.0054 g	0.0003671 g	A
10-OPI-9	21	0	0.5 oz	AT106_lb	2A9-1.2oz	0.0013029 g	0.0028 g	0.0003670 g	A
10-OPI-9	22	0	0.25 oz	AT106_lb	2A9-1.4oz	0.0006365 g	0.0017 g	0.0000557 g	A
10-OPI-9	23	0	0.125 oz	CCE6_lb	2A9-1.8oz	-0.0002179 g	0.0013 g	0.0000092 g	A
10-OPI-9	24	0	0.0625 oz	CCE6_lb	2A9-1.16oz	0.0007959 g	0.0011 g	0.0000092 g	A
10-OPI-9	25	0	0.0625 oz*	CCE6_lb	2A9-1.16oz	-0.0004113 g	0.0011 g	0.0000092 g	A
11A9	17	0	8 oz	CC1201_lb	NSL-8-1	0.0103329 g	0.045 g	0.0022441 g	A

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

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Agency ID: 90
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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
11A9	18	0	4 oz	CC1201_lb	NSL-Z	0.0011960 g	0.023 g	0.0022413 g	A
11A9	19	0	2 oz	AT106_lb	NSL-Y	-0.0049998 g	0.011 g	0.0000637 g	A
11A9	20	0	1 oz	AT106_lb	2A9-1oz	0.0021029 g	0.0054 g	0.0003671 g	A
11A9	21	0	0.5 oz	AT106_lb	2A9-1.2oz	0.0009419 g	0.0028 g	0.0003670 g	A
11A9	22	0	0.25 oz	AT106_lb	2A9-1.4oz	-0.0002775 g	0.0017 g	0.0000557 g	A
11A9	23	0	0.125 oz	CCE6_lb	2A9-1.8oz	-0.0005478 g	0.0013 g	0.0000092 g	A
11A9	24	0	0.0625 oz	CCE6_lb	2A9-1.16oz	0.0000109 g	0.0011 g	0.0000092 g	A
11A9	25	0	0.0625 oz*	CCE6_lb	2A9-1.16oz	-0.0005158 g	0.0011 g	0.0000092 g	A
17649	1	0	0.2 lb	AT106_gm	NSL-WK2	0.0086119 g	0.018 g	0.0000448 g	A
17649	2	0	0.2 lb*	AT106_gm	NSL-WK2	0.0089499 g	0.018 g	0.0000448 g	A
17649	3	0	0.1 lb	AT106_gm	NSL-WK3	0.0040657 g	0.0091 g	0.0000353 g	A
17649	4	0	0.05 lb	AT106_gm	NSL-WK4	0.0018391 g	0.0045 g	0.0000329 g	A
17649	5	0	0.02 lb	AT106_gm	NSL-WK6	0.0006044 g	0.0018 g	0.0000273 g	A
17649	6	0	0.02 lb*	AT106_gm	NSL-WK6	0.0009664 g	0.0018 g	0.0000273 g	A
17649	7	0	0.01 lb	CCE6_lb	NSL-WK7	0.0004492 g	0.0015 g	0.0000105 g	A
17649	8	0	0.005 lb	CCE6_lb	NSL-WK8	0.0003346 g	0.0012 g	0.0000092 g	A
17649	9	0	0.002 lb	CCE6_lb	NSL-WK10	0.0000929 g	0.00087 g	0.0000082 g	A
17649	10	0	0.002 lb*	CCE6_lb	NSL-WK10	-0.0000406 g	0.00087 g	0.0000082 g	A
17649	11	0	0.001 lb	CCE6_lb	NSL-WK11	0.0001634 g	0.0007 g	0.0000081 g	A
WM25-46	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9968098 g	1.1 g	0.0343044 g	A
WM25-47	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.4718098 g	1.1 g	0.0343044 g	R
WM25-47	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5318098 g	1.1 g	0.0343044 g	A
WM25-88	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0068098 g	1.1 g	0.0343044 g	A
WM25-89	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9818098 g	1.1 g	0.0343044 g	A
WM25-90	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0118098 g	1.1 g	0.0343044 g	A
WM25-91	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9518098 g	1.1 g	0.0343044 g	A
WM25-92	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.7318098 g	1.1 g	0.0343044 g	R
WM25-92	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.0331902 g	1.1 g	0.0343044 g	A
WM25-93	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0168098 g	1.1 g	0.0343044 g	A
WM25-94	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9618098 g	1.1 g	0.0343044 g	A
WM25-95	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.3568098 g	1.1 g	0.0343044 g	R
WM25-95	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2218098 g	1.1 g	0.0343044 g	A
WM-3G95	1	0	0.3 lb	CC1201_lb	NSL-WK1	0.0010900 g	0.027 g	0.0022423 g	A

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 Agency: Food Safety & Consumer Protection
 Area 90

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 Observer: CEO

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM-3G95	2	0	0.2 lb	AT106_lb	NSL-WK2	0.0042839 g	0.018 g	0.0000666 g	A
WM-3G95	3	0	0.1 lb	AT106_lb	NSL-WK3	0.0032357 g	0.0091 g	0.0000606 g	A
WM-3G95	4	0	0.05 lb	AT106_lb	NSL-WK4	0.0014441 g	0.0045 g	0.0000592 g	A
WM-3G95	5	0	0.03 lb	AT106_lb	NSL-WK5	0.0007093 g	0.0027 g	0.0000550 g	A
WM-3G95	6	0	0.02 lb	AT106_lb	NSL-WK6	0.0008524 g	0.0018 g	0.0000563 g	A
WM-3G95	7	0	0.01 lb	CCE6_lb	NSL-WK7	0.0003722 g	0.0015 g	0.0000105 g	A
WM-3G95	8	0	0.005 lb	CCE6_lb	NSL-WK8	0.0007990 g	0.0012 g	0.0000092 g	A
WM-3G95	9	0	0.003 lb	CCE6_lb	NSL-WK9	0.0006202 g	0.00099 g	0.0000088 g	A
WM-3G95	10	0	0.002 lb	CCE6_lb	NSL-WK10	0.0006735 g	0.00087 g	0.0000082 g	A
WM-3G95	11	0	0.001 lb	CCE6_lb	NSL-WK11	0.0002172 g	0.0007 g	0.0000081 g	A
WM-3G95	12	0	0.001 lb*	CCE6_lb	NSL-WK11	0.0002065 g	0.0007 g	0.0000081 g	A
WM-6D98	1	0	10 lb	CC10000S_10lb	NEBR-STD-10	0.2133326 g	0.45 g	0.0018514 g	A
WM-6D98	2	0	5 lb	CC10000S_5lb	NSL-5-1	0.0963703 g	0.23 g	0.0016486 g	A
WM-6D98	3	0	2 lb	CC1201_lb	NSL-2-1	0.0459043 g	0.091 g	0.0022576 g	A
WM-6D98	4	0	2 lb*	CC1201_lb	NSL-2-1	0.0372043 g	0.091 g	0.0022576 g	A
WM-6D98	5	0	1 lb	CC1201_lb	NSL-1-1	0.0234273 g	0.07 g	0.0022464 g	A
WM-6D98	6	0	0.5 lb	CC1201_lb	NSL-8-1	0.0189329 g	0.045 g	0.0022441 g	A
WM-7	1	0	4 kg	CC10000S_5kg	4kg	-0.0005918 g	0.08 g	0.0007868 g	A
WM-D10	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5418098 g	1.1 g	0.0343044 g	A
WM-D11	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9468098 g	1.1 g	0.0343044 g	A
WM-D12	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9018098 g	1.1 g	0.0343044 g	A
WM-D3	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9068098 g	1.1 g	0.0343044 g	A
WM-D4	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0168098 g	1.1 g	0.0343044 g	A
WM-D5	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.5068098 g	1.1 g	0.0343044 g	R
WM-D5	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4668098 g	1.1 g	0.0343044 g	A
WM-D6	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6418098 g	1.1 g	0.0343044 g	A
WM-D7	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8568098 g	1.1 g	0.0343044 g	A
WM-D8	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7318098 g	1.1 g	0.0343044 g	A
WM-D9	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5918098 g	1.1 g	0.0343044 g	A

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

SOP 19 - Volume Transfer Test Results

Agency ID: 90

Agency: Food Safety & Consumer Protection
Area 90

Form No.: NE03LF12-R00

NE Cert No: 20110139

Date: 12/19/2011

P.O. No:

Submitted By: Brian Heskin

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Serial #: 05-40547-04
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	51.1 °F	0.999643	0 in3

Test Measure Information

Water Temperature: 51.1 °F
Water Density: 0.999643 g/cm³
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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
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Serial #: 05-40547-04
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	51.3 °F	0.999632	0 in3

Test Measure Information

Water Temperature: 51.3 °F
Water Density: 0.999632 g/cm³
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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
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Serial #: 05-40547-05
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	51.2 °F	0.999637	0 in3

Test Measure Information

Water Temperature: 51.2 °F
Water Density: 0.999637 g/cm³
Scale Reading: 0 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 05-40547-05
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	51 °F	0.999648	0 in3

Test Measure Information

Water Temperature: 51 °F
Water Density: 0.999648 g/cm³
Scale Reading: 0 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 05-40547-05
Retest #: 2
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	51.7 °F	0.999610	0 in3

Test Measure Information

Water Temperature: 51.7 °F
Water Density: 0.999610 g/cm³
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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Agency ID: 90

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Serial #: 05-40547-06
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	53.8 °F	0.999484	0 in3

Test Measure Information

Water Temperature: 53.8 °F
Water Density: 0.999484 g/cm³
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: 0.0012 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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Serial #: 05-40547-06
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	51.3 °F	0.999632	0 in3

Test Measure Information

Water Temperature: 51.3 °F
Water Density: 0.999632 g/cm³
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: 0.0012 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: 90

Agency: Food Safety & Consumer Protection
Area 90

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

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: MS
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	MS	0.0000265 /°F	52.1 °F	0.999587	0 in3

Test Measure Information

Water Temperature: 52.1 °F
Water Density: 0.999587 g/cm³
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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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SOP 19 - Volume Transfer Test Results

Agency ID: 90

Agency: Food Safety & Consumer Protection
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Serial #: 40702A
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: MS
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	MS	0.0000265 /°F	51.8 °F	0.999604	0 in3

Test Measure Information

Water Temperature: 51.8 °F
Water Density: 0.999604 g/cm³
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: 0.0012 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: 90

Agency: Food Safety & Consumer Protection
Area 90

Form No.: NE03LF12-R00

NE Cert No: 20110139

Date: 12/19/2011

P.O. No:

Submitted By: Brian Heskin

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

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material:
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		0.0000265 /°F	55.1 °F	0.999397	0 in3

Test Measure Information

Water Temperature: 55.1 °F
Water Density: 0.999397 g/cm³
Scale Reading: 0 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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SOP 19 - Volume Transfer Test Results

Agency ID: 90

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

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material:
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		0.0000265 /°F	52.1 °F	0.999587	0 in3

Test Measure Information

Water Temperature: 52.1 °F
Water Density: 0.999587 g/cm³
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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons