



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 80

Date: 10/24/2011
Agency ID: 80
NE Cert No: 20110122
P.O. No:

Submitted By: Mike Johnson

Electronic Copy Page 1

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
5 gal	04-20943-01	1	VL	A
5 gal	39423-C	1	VL	A
5 gal	4393-5-B	1	VL	A
2 lb	9-OPI-11	1	F	A
2 lb	9-OPI-11	2	F	A
2 lb	9-OPI-11	3	F	A
2 lb	9-OPI-11	4	F	A
2 lb	9-OPI-11	5	F	A
2 lb	9-OPI-11	6	F	A
2 lb	9-OPI-11	7	F	A
2 lb	9-OPI-11	8	F	A
2 lb	9-OPI-11	9	F	A
2 lb	9-OPI-11	10	F	A
2 lb	9-OPI-11	11	F	A
2 lb	9-OPI-11	12	F	A
2 lb	9-OPI-11	13	F	A
2 lb	9-OPI-11	14	F	A
1 lb	9-OPI-11	15	F	A
1 lb	9-OPI-11	16	F	A
8 oz	9-OPI-11	17	F	A
4 oz	9-OPI-11	18	F	A
2 oz	9-OPI-11	19	F	A
1 oz	9-OPI-11	20	F	A
0.5 oz	9-OPI-11	21	F	A
0.25 oz	9-OPI-11	22	F	A

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Web Site: www.agr.ne.gov

Administration
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P.O. Box 94987
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Weights and Measures
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Submitted By: Mike Johnson

Electronic Copy Page 2

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
0.125 oz	9-OPI-11	23	F	A
0.0625 oz	9-OPI-11	24	F	A
0.0625 oz*	9-OPI-11	25	F	A
0.3 lb	9-OPI-11	26	F	A
0.2 lb	9-OPI-11	27	F	A
0.1 lb	9-OPI-11	28	F	A
0.05 lb	9-OPI-11	29	F	A
0.03 lb	9-OPI-11	30	F	A
0.02 lb	9-OPI-11	31	F	A
0.01 lb	9-OPI-11	32	F	A
0.005 lb	9-OPI-11	33	F	A
0.003 lb	9-OPI-11	34	F	A
0.002 lb	9-OPI-11	35	F	A
0.001 lb	9-OPI-11	36	F	A
0.001 lb*	9-OPI-11	37	F	A
25 lb	NE-1	1	F	A
25 lb	NE-10	1	F	A
25 lb	NE-11	1	F	A
25 lb	NE-12	1	F	A
25 lb	NE-13	1	F	A
25 lb	NE-14	1	F	A
25 lb	NE-15	1	F	A
25 lb	NE-16	1	F	A
25 lb	NE-17	1	F	A
25 lb	NE-18	1	F	A
25 lb	NE-19	1	F	A
25 lb	NE-2	1	F	A
25 lb	NE-20	1	F	A
25 lb	NE-3	1	F	A
25 lb	NE-4	1	F	A
25 lb	NE-5	1	F	A
25 lb	NE-6	1	F	A
25 lb	NE-7	1	F	A
25 lb	NE-8	1	F	A
25 lb	NE-9	1	F	A
10 kg	NSL-CK-10KG	1	2	A

Submitted By: Mike Johnson

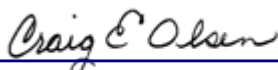
Electronic Copy Page 3

Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
300 g	WM-G89-7	1	4	A
200 g	WM-G89-7	2	4	A
100 g	WM-G89-7	3	4	A
50 g	WM-G89-7	4	4	A
30 g	WM-G89-7	5	4	A
20 g	WM-G89-7	6	4	A
10 g	WM-G89-7	7	4	A
5 g	WM-G89-7	8	4	A
3 g	WM-G89-7	9	4	A
2 g	WM-G89-7	10	4	A
1 g	WM-G89-7	11	4	A
500 mg	WM-G89-7	12	4	A
200 mg	WM-G89-7	13	4	A
200 mg*	WM-G89-7	14	4	A
100 mg	WM-G89-7	15	4	A
50 mg	WM-G89-7	16	4	A
20 mg	WM-G89-7	17	4	A
20 mg*	WM-G89-7	18	4	A
10 mg	WM-G89-7	19	4	A
5 mg	WM-G89-7	20	4	A
2 mg	WM-G89-7	21	4	A
2 mg*	WM-G89-7	22	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 Test Results - Individual Weight

Agency ID: 80
 Agency: Food Safety & Consumer Protection
 Area 80
 , -

NE Cert No: 20110122
 Date: 10/24/2011
 P.O. No:
 Observer: CEO

Submitted By: Mike Johnson

Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	23.7 °C
Weight #:	1	Pressure:	752 mm/Hg
Retest #:	0	Rel Humidity:	39 %
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:	0.0028 g	SW: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx+SW:	0.2029 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.2004 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	300.00354425 g	Mx Correction:	0.00354425 g
Conventional Mass:	300.00262573 g	CMx Correction:	0.00262573 g
		Tolerance Class:	4
Uncertainty:	0.00014956 g	Tolerance:	0.006 g
Air Density:	0.00117186 g/cm3	Accept/Reject:	A

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Serial #: WM-G89-7
 Weight #: 1
 Retest #: 1
 Denomination: 300 g
 Density: 7.84 g/cm3
 Eq Wt/grams: 300 g

Temperature: 23.7 °C
 Pressure: 752 mm/Hg
 Rel Humidity: 39 %
 Comparator Used: CC1201 / 1 kg
 Pooled Std.Dev.: 0.0000738 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0 g	S: 300gd	300.00088843 g	0.0000219 g	7.85 g/cm3
X+Tx:	0.0026 g	SW: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx+SW:	0.2027 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.2004 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	300.00339432 g	Mx Correction:	0.00339432 g
Conventional Mass:	300.00247581 g	CMx Correction:	0.00247581 g
Uncertainty:	0.00014956 g	Tolerance Class:	4
Air Density:	0.00117186 g/cm3	Tolerance:	0.006 g
		Accept/Reject:	A

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Observer: CEO

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Serial #:	WM-G89-7	Temperature:	24.1 °C
Weight #:	2	Pressure:	756.9 mm/Hg
Retest #:	0	Rel Humidity:	39 %
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 g	S: 200gd	200.00109475 g	0.00001552 g	7.85 g/cm3
X+Tx:	0.002 g	SW: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx+SW:	0.202 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.2002 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	200.00303302 g	Mx Correction:	0.00303302 g
Conventional Mass:	200.00242067 g	CMx Correction:	0.00242067 g
		Tolerance Class:	4
Uncertainty:	0.00014876 g	Tolerance:	0.004 g
Air Density:	0.00117782 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-7	Temperature:	24.1 °C
Weight #:	3	Pressure:	756.9 mm/Hg
Retest #:	0	Rel Humidity:	39 %
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:	0.000018 g	S: 100grl	100.000135 g	0.00006 g	7.95 g/cm3
X+Tx:	0.000385 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010396 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010029 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	100.00070973 g	Mx Correction:	0.00070973 g
Conventional Mass:	100.00040356 g	CMx Correction:	0.00040356 g
Uncertainty:	0.00006764 g	Tolerance Class:	4
Air Density:	0.00117782 g/cm3	Tolerance:	0.002 g
		Accept/Reject:	A

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Serial #:	WM-G89-7	Temperature:	24.1 °C
Weight #:	4	Pressure:	757 mm/Hg
Retest #:	0	Rel Humidity:	39 %
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:	0.000001 g	S: 50grl	50.00007 g	0.000034 g	7.95 g/cm3
X+Tx:	0.000211 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010219 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010011 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	50.00038293 g	Mx Correction:	0.00038293 g
Conventional Mass:	50.00022985 g	CMx Correction:	0.00022985 g
		Tolerance Class:	4
Uncertainty:	0.00004616 g	Tolerance:	0.0012 g
Air Density:	0.00117798 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-7	Temperature:	24.1 °C
Weight #:	5	Pressure:	757 mm/Hg
Retest #:	0	Rel Humidity:	39 %
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:	0.000003 g	S: 30grl	30.000071 g	0.000025 g	7.95 g/cm3
X+Tx:	0.000079 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010084 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.01001 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	30.00020839 g	Mx Correction:	0.00020839 g
Conventional Mass:	30.00011654 g	CMx Correction:	0.00011654 g
Uncertainty:	0.00003999 g	Tolerance Class:	4
Air Density:	0.00117798 g/cm3	Tolerance:	0.0009 g
		Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	24.1 °C
Weight #:	6	Pressure:	757 mm/Hg
Retest #:	0	Rel Humidity:	39 %
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:	0.000331 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.010338 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010013 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	20.00041257 g	Mx Correction:	0.00041257 g
Conventional Mass:	20.00035133 g	CMx Correction:	0.00035133 g
		Tolerance Class:	4
Uncertainty:	0.00003508 g	Tolerance:	0.0007 g
Air Density:	0.00117798 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.1 °C
Weight #:	7	Pressure:	757.4 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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 g	S: 10grl	10.0000145 g	0.0000086 g	7.95 g/cm3
X+Tx:	0.000393 g	SW: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx+SW:	0.0104 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010015 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	10.00042444 g	Mx Correction:	0.00042444 g
Conventional Mass:	10.00039382 g	CMx Correction:	0.00039382 g
		Tolerance Class:	4
Uncertainty:	0.00001808 g	Tolerance:	0.0005 g
Air Density:	0.00118742 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-7	Temperature:	22.1 °C
Weight #:	8	Pressure:	757.4 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	0.000004 g	S: 5grl	5.0000192 g	0.0000048 g	7.95 g/cm3
X+Tx:	0.0002574 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0052609 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050064 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	5.00028372 g	Mx Correction:	0.00028372 g
Conventional Mass:	5.00026841 g	CMx Correction:	0.00026841 g
		Tolerance Class:	4
Uncertainty:	0.00000721 g	Tolerance:	0.00036 g
Air Density:	0.00118742 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.1 °C
Weight #:	9	Pressure:	757.4 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.0000129 g	S: 3grl	3.0000143 g	0.0000033 g	7.95 g/cm3
X+Tx:	0.0002648 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0052759 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050052 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	3.00029447 g	Mx Correction:	0.00029447 g
Conventional Mass:	3.00028528 g	CMx Correction:	0.00028528 g
		Tolerance Class:	4
Uncertainty:	0.00000632 g	Tolerance:	0.0003 g
Air Density:	0.00118742 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-7	Temperature:	22.8 °C
Weight #:	10	Pressure:	757.2 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.0000085 g	S: 2grl	2.0000129 g	0.0000033 g	7.95 g/cm3
X+Tx:	0.0000588 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.005067 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0049967 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	2.00008584 g	Mx Correction:	0.00008584 g
Conventional Mass:	2.00007972 g	CMx Correction:	0.00007972 g
		Tolerance Class:	4
Uncertainty:	0.00000632 g	Tolerance:	0.00026 g
Air Density:	0.00118411 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-7	Temperature:	22.8 °C
Weight #:	11	Pressure:	757.2 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	0.0000005 g	S: 1grl	1.0000093 g	0.0000028 g	7.95 g/cm3
X+Tx:	0.0000215 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.005026 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050069 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	1.00003144 g	Mx Correction:	0.00003144 g
Conventional Mass:	1.00002838 g	CMx Correction:	0.00002838 g
Uncertainty:	0.00000355 g	Tolerance Class:	4
Air Density:	0.00118411 g/cm3	Tolerance:	0.0002 g
		Accept/Reject:	A

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

Agency ID: 80
 Agency: Food Safety & Consumer Protection
 Area 80
 , -

NE Cert No: 20110122
 Date: 10/24/2011
 P.O. No:
 Observer: CEO

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Form No.: NE04LF6-R00

Serial #: WM-G89-7
 Weight #: 12
 Retest #: 0
 Denomination: 500 mg
 Density: 7.84 g/cm3
 Eq Wt/grams: 0.5 g

Temperature: 22.8 °C
 Pressure: 757.2 mm/Hg
 Rel Humidity: 37 %
 Comparator Used: CCE6_1G
 Pooled Std.Dev.: 0.0000004 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000014 g	S: 500mgrl	0.5000051 g	0.0000016 g	7.95 g/cm3
X+Tx:	0.0000257 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050355 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050105 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.50003217 g	Mx Correction:	0.00003217 g
Conventional Mass:	0.50003064 g	CMx Correction:	0.00003064 g
Uncertainty:	0.00000271 g	Tolerance Class:	4
Air Density:	0.00118411 g/cm3	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

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.3 °C
Weight #:	13	Pressure:	757.2 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	0.0000064 g	S: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx:	-0.0000145 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049893 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050133 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.19997635 g	Mx Correction:	-0.00002365 g
Conventional Mass:	0.19997574 g	CMx Correction:	-0.00002426 g
		Tolerance Class:	4
Uncertainty:	0.00000235 g	Tolerance:	0.00012 g
Air Density:	0.00118625 g/cm3	Accept/Reject:	A

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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-G89-7	Temperature:	22.3 °C
Weight #:	14	Pressure:	757.2 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.0000024 g	S: 200mgrl	0.19999839 g	0.00000085 g	7.95 g/cm3
X+Tx:	-0.0000376 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049684 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.005004 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.19996341 g	Mx Correction:	-0.00003659 g
Conventional Mass:	0.19996280 g	CMx Correction:	-0.00003720 g
		Tolerance Class:	4
Uncertainty:	0.00000235 g	Tolerance:	0.00012 g
Air Density:	0.00118625 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-G89-7
 Weight #: 15
 Retest #: 0
 Denomination: 100 mg
 Density: 7.84 g/cm³
 Eq Wt/grams: 0.1 g

Temperature: 22.3 °C
 Pressure: 757.2 mm/Hg
 Rel Humidity: 37 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000001 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000004 g	S: 100mgrl	0.09999738 g	0.0000006 g	7.95 g/cm ³
X+Tx:	-0.000048 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0049574 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050072 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.09994849 g	Mx Correction:	-0.00005151 g
Conventional Mass:	0.09994818 g	CMx Correction:	-0.00005182 g
Uncertainty:	0.0000209 g	Tolerance Class:	4
Air Density:	0.00118625 g/cm ³	Tolerance:	0.0001 g
		Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 Observer: CEO

Submitted By: Mike Johnson

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.4 °C
Weight #:	16	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	0.0000008 g	S: 50mgrl	0.05000221 g	0.00000055 g	7.95 g/cm3
X+Tx:	-0.0000052 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050005 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050074 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.04999587 g	Mx Correction:	-0.00000413 g
Conventional Mass:	0.04999571 g	CMx Correction:	-0.00000429 g
		Tolerance Class:	4
Uncertainty:	0.00000208 g	Tolerance:	0.000085 g
Air Density:	0.00118708 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 Area 80
 , -

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 Observer: CEO

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.4 °C
Weight #:	17	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.03001 g	S: 20mg/l	0.02000601 g	0.00000041 g	7.95 g/cm3
X+Tx:	-0.030002 g	SW: 5mg/l	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	-0.0249968 g	Ts:	g	g	g/cm3
S+Ts+SW:	-0.0250038 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.02001932 g	Mx Correction:	0.00001932 g
Conventional Mass:	0.02001343 g	CMx Correction:	0.00001343 g
		Tolerance Class:	4
Uncertainty:	0.00000205 g	Tolerance:	0.00007 g
Air Density:	0.00118708 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 80
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 Area 80
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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.4 °C
Weight #:	18	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.0000001 g	S: 20mg/l	0.02000601 g	0.00000041 g	7.95 g/cm3
X+Tx:	0.0000352 g	SW: 5mg/l	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050406 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050071 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.02004623 g	Mx Correction:	0.00004623 g
Conventional Mass:	0.02004033 g	CMx Correction:	0.00004033 g
		Tolerance Class:	4
Uncertainty:	0.00000205 g	Tolerance:	0.00007 g
Air Density:	0.00118708 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 80
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 Area 80
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NE Cert No: 20110122
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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.4 °C
Weight #:	19	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	0.0000004 g	S: 10mgrl	0.01000642 g	0.00000044 g	7.95 g/cm3
X+Tx:	-0.0000013 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050044 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050068 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.01000728 g	Mx Correction:	0.00000728 g
Conventional Mass:	0.01000433 g	CMx Correction:	0.00000433 g
		Tolerance Class:	4
Uncertainty:	0.00000205 g	Tolerance:	0.00006 g
Air Density:	0.00118708 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 Agency: Food Safety & Consumer Protection
 Area 80
 , -

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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.4 °C
Weight #:	20	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.0000017 g	S: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx:	-0.0000236 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0029794 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030025 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00498422 g	Mx Correction:	-0.00001578 g
Conventional Mass:	0.00498275 g	CMx Correction:	-0.00001725 g
		Tolerance Class:	4
Uncertainty:	0.00000204 g	Tolerance:	0.000055 g
Air Density:	0.00118708 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution Test Results - Individual Weight

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 Agency: Food Safety & Consumer Protection
 Area 80
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Form No.: NE04LF6-R00

Serial #:	WM-G89-7	Temperature:	22.4 °C
Weight #:	21	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	0.0000016 g	S: 2mgrl	0.00199491 g	0.00000034 g	7.95 g/cm3
X+Tx:	0.0000177 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030206 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030031 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00201230 g	Mx Correction:	0.00001230 g
Conventional Mass:	0.00201170 g	CMx Correction:	0.00001170 g
		Tolerance Class:	4
Uncertainty:	0.00000204 g	Tolerance:	0.00005 g
Air Density:	0.00118708 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-G89-7	Temperature:	22.4 °C
Weight #:	22	Pressure:	758 mm/Hg
Retest #:	0	Rel Humidity:	37 %
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:	-0.0000009 g	S: 2mgrl	0.00199491 g	0.00000034 g	7.95 g/cm3
X+Tx:	-0.0000148 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0029882 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.003 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00198264 g	Mx Correction:	-0.00001736 g
Conventional Mass:	0.00198205 g	CMx Correction:	-0.00001795 g
		Tolerance Class:	4
Uncertainty:	0.00000204 g	Tolerance:	0.00005 g
Air Density:	0.00118708 g/cm3	Accept/Reject:	A

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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

Agency ID: 80
 Agency: Food Safety & Consumer Protection
 Area 80
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NE Cert No: 20110122
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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
9-OPI-11	1	0	2 lb	CC1201_lb	NSL-2-1	-0.0494957 g	0.091 g	0.0022576 g	A
9-OPI-11	2	0	2 lb	CC1201_lb	NSL-2-1	-0.0486957 g	0.091 g	0.0022576 g	A
9-OPI-11	3	0	2 lb	CC1201_lb	NSL-2-1	-0.0425957 g	0.091 g	0.0022576 g	A
9-OPI-11	4	0	2 lb	CC1201_lb	NSL-2-1	-0.0276957 g	0.091 g	0.0022576 g	A
9-OPI-11	5	0	2 lb	CC1201_lb	NSL-2-1	-0.0345957 g	0.091 g	0.0022576 g	A
9-OPI-11	6	0	2 lb	CC1201_lb	NSL-2-1	-0.0237957 g	0.091 g	0.0022576 g	A
9-OPI-11	7	0	2 lb	CC1201_lb	NSL-2-1	-0.0318957 g	0.091 g	0.0022576 g	A
9-OPI-11	8	0	2 lb	CC1201_lb	NSL-2-1	-0.0514957 g	0.091 g	0.0022576 g	A
9-OPI-11	9	0	2 lb	CC1201_lb	NSL-2-1	-0.0262957 g	0.091 g	0.0022576 g	A
9-OPI-11	10	0	2 lb	CC1201_lb	NSL-2-1	-0.0462957 g	0.091 g	0.0022576 g	A
9-OPI-11	11	0	2 lb	CC1201_lb	NSL-2-1	-0.0280957 g	0.091 g	0.0022576 g	A
9-OPI-11	12	0	2 lb	CC1201_lb	NSL-2-1	-0.0466957 g	0.091 g	0.0022576 g	A
9-OPI-11	13	0	2 lb	CC1201_lb	NSL-2-1	-0.0132957 g	0.091 g	0.0022576 g	A
9-OPI-11	14	0	2 lb	CC1201_lb	NSL-2-1	-0.0507957 g	0.091 g	0.0022576 g	A
9-OPI-11	15	0	1 lb	CC1201_lb	NSL-1-1	-0.0214727 g	0.07 g	0.0022464 g	A
9-OPI-11	16	0	1 lb	CC1201_lb	NSL-1-1	-0.0218727 g	0.07 g	0.0022464 g	A
9-OPI-11	17	0	8 oz	CC1201_lb	NSL-8-1	0.0023329 g	0.045 g	0.0022441 g	A
9-OPI-11	18	0	4 oz	CC1201_lb	NSL-Z	-0.0032040 g	0.023 g	0.0022413 g	A
9-OPI-11	19	0	2 oz	AT106_lb	NSL-Y	-0.0002058 g	0.011 g	0.0000637 g	A
9-OPI-11	20	0	1 oz	AT106_lb	2A9-1oz	0.0021249 g	0.0054 g	0.0003671 g	A
9-OPI-11	21	0	0.5 oz	AT106_lb	2A9-1.2oz	0.0016269 g	0.0028 g	0.0003670 g	A
9-OPI-11	22	0	0.25 oz	AT106_lb	2A9-1.4oz	0.0003475 g	0.0017 g	0.0000557 g	A
9-OPI-11	23	0	0.125 oz	CCE6_lb	2A9-1.8oz	0.0006759 g	0.0013 g	0.0000092 g	A
9-OPI-11	24	0	0.0625 oz	CCE6_lb	2A9-1.16oz	-0.0000951 g	0.0011 g	0.0000092 g	A
9-OPI-11	25	0	0.0625 oz*	CCE6_lb	2A9-1.16oz	0.0006705 g	0.0011 g	0.0000092 g	A
9-OPI-11	26	0	0.3 lb	CC1201_lb	NSL-WK1	-0.0080100 g	0.027 g	0.0022423 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: 80
 Agency: Food Safety & Consumer Protection
 Area 80

NE Cert No: 20110122
 Date: 10/24/2011
 P.O. No:
 Observer: CEO

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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
9-OPI-11	27	0	0.2 lb	AT106_lb	NSL-WK2	-0.0030671 g	0.018 g	0.0000666 g	A
9-OPI-11	28	0	0.1 lb	AT106_lb	NSL-WK3	-0.0006283 g	0.0091 g	0.0000606 g	A
9-OPI-11	29	0	0.05 lb	AT106_lb	NSL-WK4	-0.0003019 g	0.0045 g	0.0000592 g	A
9-OPI-11	30	0	0.03 lb	AT106_lb	NSL-WK5	-0.0010487 g	0.0027 g	0.0000550 g	A
9-OPI-11	31	0	0.02 lb	AT106_lb	NSL-WK6	-0.0013496 g	0.0018 g	0.0000563 g	A
9-OPI-11	32	0	0.01 lb	CCE6_lb	NSL-WK7	-0.0014476 g	0.0015 g	0.0000105 g	A
9-OPI-11	33	0	0.005 lb	CCE6_lb	NSL-WK8	-0.0003139 g	0.0012 g	0.0000092 g	A
9-OPI-11	34	0	0.003 lb	CCE6_lb	NSL-WK9	-0.0004869 g	0.00099 g	0.0000088 g	A
9-OPI-11	35	0	0.002 lb	CCE6_lb	NSL-WK10	-0.0005141 g	0.00087 g	0.0000082 g	A
9-OPI-11	36	0	0.001 lb	CCE6_lb	NSL-WK11	-0.0002919 g	0.0007 g	0.0000081 g	A
9-OPI-11	37	0	0.001 lb*	CCE6_lb	NSL-WK11	-0.0001389 g	0.0007 g	0.0000081 g	A
NE-1	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7981902 g	1.1 g	0.0343044 g	A
NE-10	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9231902 g	1.1 g	0.0343044 g	A
NE-11	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.1581902 g	1.1 g	0.0343044 g	R
NE-11	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4168098 g	1.1 g	0.0343044 g	A
NE-12	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7181902 g	1.1 g	0.0343044 g	A
NE-13	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7381902 g	1.1 g	0.0343044 g	A
NE-14	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.2781902 g	1.1 g	0.0343044 g	R
NE-14	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2368098 g	1.1 g	0.0343044 g	A
NE-15	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5781902 g	1.1 g	0.0343044 g	A
NE-16	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.2018098 g	1.1 g	0.0343044 g	A
NE-17	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.4431902 g	1.1 g	0.0343044 g	R
NE-17	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.2181902 g	1.1 g	0.0343044 g	A
NE-18	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9481902 g	1.1 g	0.0343044 g	A
NE-19	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.3931902 g	1.1 g	0.0343044 g	R
NE-19	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.0081902 g	1.1 g	0.0343044 g	A
NE-2	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7231902 g	1.1 g	0.0343044 g	A
NE-20	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6131902 g	1.1 g	0.0343044 g	A
NE-3	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9981902 g	1.1 g	0.0343044 g	A
NE-4	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.0681902 g	1.1 g	0.0343044 g	A
NE-4	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.7218098 g	1.1 g	0.0343044 g	A
NE-5	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9981902 g	1.1 g	0.0343044 g	A
NE-6	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.4581902 g	1.1 g	0.0343044 g	R

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: 80
Agency: Food Safety & Consumer Protection
Area 80
, -

NE Cert No: 20110122
Date: 10/24/2011
P.O. No:
Observer: CEO

Submitted By: Mike Johnson

Electronic Copy

Page 3 of 3

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
NE-6	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.2481902 g	1.1 g	0.0343044 g	A
NE-7	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.2931902 g	1.1 g	0.0343044 g	R
NE-7	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.5281902 g	1.1 g	0.0343044 g	A
NE-8	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6481902 g	1.1 g	0.0343044 g	A
NE-9	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.0981902 g	1.1 g	0.0343044 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 19 - Volume Transfer Test Results

Agency ID: 80

Agency: Food Safety & Consumer Protection
Area 80

Form No.: NE03LF12-R00

NE Cert No: 20110122

Date: 10/24/2011

P.O. No:

Submitted By: Mike Johnson

Page 1 of 6

Serial #: 04-20943-01
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	53.1 °F	0.999528	0 in3

Test Measure Information

Water Temperature: 53.1 °F
Water Density: 0.999528 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: 80

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Area 80

Form No.: NE03LF12-R00

NE Cert No: 20110122

Date: 10/24/2011

P.O. No:

Submitted By: Mike Johnson

Page 2 of 6

Serial #: 04-20943-01
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	51.6 °F	0.999616	0 in3

Test Measure Information

Water Temperature: 51.6 °F
Water Density: 0.999616 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: 80

Agency: Food Safety & Consumer Protection
Area 80

Form No.: NE03LF12-R00

NE Cert No: 20110122

Date: 10/24/2011

P.O. No:

Submitted By: Mike Johnson

Page 3 of 6

Serial #: 39423-C
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	61.2 °F	0.998905	0 in3

Test Measure Information

Water Temperature: 61.2 °F
Water Density: 0.998905 g/cm³
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: 0.0012 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: 80

Agency: Food Safety & Consumer Protection
Area 80

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NE Cert No: 20110122

Date: 10/24/2011

P.O. No:

Submitted By: Mike Johnson

Page 4 of 6

Serial #: 39423-C
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	62.1 °F	0.998821	0 in3

Test Measure Information

Water Temperature: 62.1 °F
Water Density: 0.998821 g/cm³
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: 0.0012 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: 80

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P.O. No:

Submitted By: Mike Johnson

Page 5 of 6

Serial #: 4393-5-B
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	62.2 °F	0.998812	0 in3

Test Measure Information

Water Temperature: 62.2 °F
Water Density: 0.998812 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
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 80

Agency: Food Safety & Consumer Protection
Area 80

Form No.: NE03LF12-R00

NE Cert No: 20110122

Date: 10/24/2011

P.O. No:

Submitted By: Mike Johnson

Page 6 of 6

Serial #: 4393-5-B
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	62.5 °F	0.998783	0 in3

Test Measure Information

Water Temperature: 62.5 °F
Water Density: 0.998783 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