



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 45

Date: 8/12/2013
Agency ID: 45
NE Cert No: 20130086
P.O. No:

Submitted By: Gary Kliment

Electronic Copy Page 1

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
5 gal	0247	1	VL	A
5 gal	0248	1	VL	A
5 gal	0249	1	VL	A
0.3 lb	11570	1	F	A
0.2 lb	11570	2	F	A
0.1 lb	11570	3	F	A
0.05 lb	11570	4	F	A
0.03 lb	11570	5	F	A
0.02 lb	11570	6	F	A
0.01 lb	11570	7	F	A
0.005 lb	11570	8	F	A
0.003 lb	11570	9	F	A
0.002 lb	11570	10	F	A
0.001 lb	11570	11	F	A
0.001 lb*	11570	12	F	A
2 lb	11-OPI-85	1	F	A
2 lb	11-OPI-85	2	F	A
2 lb	11-OPI-85	3	F	A
2 lb	11-OPI-85	4	F	A
2 lb	11-OPI-85	5	F	A
2 lb	11-OPI-85	6	F	A
2 lb	11-OPI-85	7	F	A
2 lb	11-OPI-85	8	F	A
2 lb	11-OPI-85	9	F	A
2 lb	11-OPI-85	10	F	A

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Weights and Measures
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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
2 lb	11-OPI-85	11	F	A
2 lb	11-OPI-85	12	F	A
2 lb	11-OPI-85	13	F	A
2 lb	11-OPI-85	14	F	A
1 lb	11-OPI-85	15	F	A
1 lb	11-OPI-85	16	F	A
8 oz	11-OPI-85	17	F	A
4 oz	11-OPI-85	18	F	A
2 oz	11-OPI-85	19	F	A
1 oz	11-OPI-85	20	F	A
0.5 oz	11-OPI-85	21	F	A
0.25 oz	11-OPI-85	22	F	A
0.125 oz	11-OPI-85	23	F	A
0.0625 oz	11-OPI-85	24	F	A
0.0625 oz*	11-OPI-85	25	F	A
5 gal	4393-5-E	1	VL	A
5 gal	4393-5-F	1	VL	A
0.2 lb	N-99-B	1	F	A
0.2 lb*	N-99-B	2	F	A
0.1 lb	N-99-B	3	F	A
0.05 lb	N-99-B	4	F	A
0.02 lb	N-99-B	5	F	A
0.02 lb*	N-99-B	6	F	A
0.01 lb	N-99-B	7	F	A
0.005 lb	N-99-B	8	F	A
0.002 lb	N-99-B	9	F	A
0.002 lb*	N-99-B	10	F	A
0.001 lb	N-99-B	11	F	A
25 lb	NE-21	1	F	A
25 lb	NE-22	1	F	A
25 lb	NE-24	1	F	A
25 lb	NE-25	1	F	A
25 lb	NE-26	1	F	A
25 lb	NE-30	1	F	A
25 lb	NE-31	1	F	A
25 lb	NE-32	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>
25 lb	NE-33	1	F	A
25 lb	NE-34	1	F	A
25 lb	NE-35	1	F	A
25 lb	NE-36	1	F	A
25 lb	NE-37	1	F	A
25 lb	NE-40	1	F	A
4 kg	WM-1	1	4	A
25 lb	WM25-114	1	F	A
25 lb	WM25-116	1	F	A
25 lb	WM25-117	1	F	A
25 lb	WM25-119	1	F	A
25 lb	WM25-124	1	F	A
25 lb	WM25-127	1	F	A
25 lb	WM25-131	1	F	A
25 lb	WM25-42	1	F	A
25 lb	WM25-43	1	F	A
25 lb	WM25-44	1	F	A
300 g	WM-G89-3	1	4	A
200 g	WM-G89-3	2	4	A
100 g	WM-G89-3	3	4	A
50 g	WM-G89-3	4	4	A
30 g	WM-G89-3	5	4	A
20 g	WM-G89-3	6	4	A
10 g	WM-G89-3	7	4	A
5 g	WM-G89-3	8	4	A
3 g	WM-G89-3	9	4	A
2 g	WM-G89-3	10	4	A
1 g	WM-G89-3	11	4	A
500 mg	WM-G89-3	12	4	A
200 mg	WM-G89-3	13	4	A
200 mg*	WM-G89-3	14	4	A
100 mg	WM-G89-3	15	4	A
50 mg	WM-G89-3	16	4	A
20 mg	WM-G89-3	17	4	A
20 mg*	WM-G89-3	18	4	A
10 mg	WM-G89-3	19	4	A
5 mg	WM-G89-3	20	4	A
2 mg	WM-G89-3	21	4	A
2 mg*	WM-G89-3	22	4	A
1 mg	WM-G89-3	23	4	A

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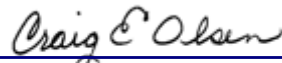
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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
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These field standards have been compared with our reference standards and found to be within the 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: 45

Agency: Food Safety & Consumer Protection
 Area 45

NE Cert No: 20130086

Date: 8/12/2013

P.O. No:

Observer: CEO

Submitted By: Gary Kliment

Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-1	Temperature:	21.7 °C
Weight #:	1	Pressure:	765.2 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	4 kg	Comparator Used:	CC10000S_5kg
Density:	7.85 g/cm3	Pooled Std.Dev.:	0.0002077 g
Eq Wt/grams:	4000 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0002 g	S: 3kg	3000.00891 g	0.0002 g	7.99 g/cm3
X+Tx:	-0.0546 g	SW: 300mgrl	0.30000334 g	0.00000318 g	7.95 g/cm3
X+Tx+SW:	0.2453 g	Ts: 1kg**	1000.007458 g	0.00007 g	7.99 g/cm3
S+Ts+SW:	0.3006 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	3999.97201076 g	Mx Correction:	-0.02798924 g
Conventional Mass:	3999.96054416 g	CMx Correction:	-0.03945584 g
		Tolerance Class:	4
Uncertainty:	0.00047693 g	Tolerance:	0.08 g
Air Density:	0.00119957 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.8 °C
Weight #:	1	Pressure:	763.2 mm/Hg
Retest #:	0	Rel Humidity:	55.5 %
Denomination:	300 g	Comparator Used:	CC1201_300g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000422 g
Eq Wt/grams:	300 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0004 g	S: 300g	300.003333 g	0.000021 g	7.99 g/cm3
X+Tx:	0.0022 g	SW: 50mgrl	0.05000304 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.0525 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0513 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	300.00568323 g	Mx Correction:	0.00568323 g
Conventional Mass:	300.00476471 g	CMx Correction:	0.00476471 g
		Tolerance Class:	4
Uncertainty:	0.00008758 g	Tolerance:	0.006 g
Air Density:	0.00119568 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.8 °C
Weight #:	2	Pressure:	763.2 mm/Hg
Retest #:	0	Rel Humidity:	55.5 %
Denomination:	200 g	Comparator Used:	CC1201_200g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000685 g
Eq Wt/grams:	200 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0 g	S: 200g	200.00251 g	0.000012 g	7.99 g/cm3
X+Tx:	-0.0015 g	SW: 50mgrl	0.05000304 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.0486 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0502 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	200.00153572 g	Mx Correction:	0.00153572 g
Conventional Mass:	200.00092338 g	CMx Correction:	0.00092338 g
		Tolerance Class:	4
Uncertainty:	0.00013790 g	Tolerance:	0.004 g
Air Density:	0.00119568 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.6 °C
Weight #:	3	Pressure:	763.1 mm/Hg
Retest #:	0	Rel Humidity:	55.5 %
Denomination:	100 g	Comparator Used:	AT106_100g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000117 g
Eq Wt/grams:	100 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000048 g	S: 100grl	100.00012523 g	0.00001841 g	7.95 g/cm3
X+Tx:	0.000067 g	SW: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm3
X+Tx+SW:	0.010081 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010083 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	100.00034490 g	Mx Correction:	0.00034490 g
Conventional Mass:	100.00003873 g	CMx Correction:	0.00003873 g
		Tolerance Class:	4
Uncertainty:	0.00002981 g	Tolerance:	0.002 g
Air Density:	0.00119641 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.6 °C
Weight #:	4	Pressure:	763.1 mm/Hg
Retest #:	0	Rel Humidity:	55.5 %
Denomination:	50 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000114 g
Eq Wt/grams:	50 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000002 g	S: 50grl	50.00004499 g	0.00001658 g	7.95 g/cm3
X+Tx:	0.000506 g	SW: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm3
X+Tx+SW:	0.010512 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010012 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	50.00065244 g	Mx Correction:	0.00065244 g
Conventional Mass:	50.00049936 g	CMx Correction:	0.00049936 g
		Tolerance Class:	4
Uncertainty:	0.00002818 g	Tolerance:	0.0012 g
Air Density:	0.00119641 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.8 °C
Weight #:	5	Pressure:	763 mm/Hg
Retest #:	0	Rel Humidity:	55.5 %
Denomination:	30 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000114 g
Eq Wt/grams:	30 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.000001 g	S: 30grl	30.0000531 g	0.00001559 g	7.95 g/cm3
X+Tx:	0.000553 g	SW: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm3
X+Tx+SW:	0.010561 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.01001 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	30.00066864 g	Mx Correction:	0.00066864 g
Conventional Mass:	30.00057679 g	CMx Correction:	0.00057679 g
		Tolerance Class:	4
Uncertainty:	0.00002761 g	Tolerance:	0.0009 g
Air Density:	0.00119536 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.8 °C
Weight #:	6	Pressure:	763 mm/Hg
Retest #:	0	Rel Humidity:	55.5 %
Denomination:	20 g	Comparator Used:	AT106_20g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000056 g
Eq Wt/grams:	20 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000001 g	S: 20grl	20.00005372 g	0.00001647 g	7.95 g/cm3
X+Tx:	0.000182 g	SW: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm3
X+Tx+SW:	0.010187 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010011 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	20.00027439 g	Mx Correction:	0.00027439 g
Conventional Mass:	20.00021315 g	CMx Correction:	0.00021315 g
		Tolerance Class:	4
Uncertainty:	0.00001999 g	Tolerance:	0.0007 g
Air Density:	0.00119536 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #: WM-G89-3
 Weight #: 7
 Retest #: 0
 Denomination: 10 g
 Density: 7.84 g/cm3
 Eq Wt/grams: 10 g

Temperature: 21.8 °C
 Pressure: 763 mm/Hg
 Rel Humidity: 55.5 %
 Comparator Used: AT106_10g
 Pooled Std.Dev.: 0.0000058 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.000002 g	S: 10grl	10.00002161 g	0.00002093 g	7.95 g/cm3
X+Tx:	0.000186 g	SW: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm3
X+Tx+SW:	0.010192 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.010005 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	10.00023016 g	Mx Correction:	0.00023016 g
Conventional Mass:	10.00019954 g	CMx Correction:	0.00019954 g
		Tolerance Class:	4
Uncertainty:	0.00002397 g	Tolerance:	0.0005 g
Air Density:	0.00119536 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.3 °C
Weight #:	8	Pressure:	765.8 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	5 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	5 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 5grl	5.00002048 g	0.00000595 g	7.95 g/cm3
X+Tx:	0.0001908 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0051967 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050096 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	5.00022007 g	Mx Correction:	0.00022007 g
Conventional Mass:	5.00020476 g	CMx Correction:	0.00020476 g
		Tolerance Class:	4
Uncertainty:	0.00000704 g	Tolerance:	0.00036 g
Air Density:	0.00120229 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.3 °C
Weight #:	9	Pressure:	765.8 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	3 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	3 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000005 g	S: 3grl	3.0001842 g	0.00000595 g	7.95 g/cm3
X+Tx:	0.0002318 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0052375 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050085 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	3.00025492 g	Mx Correction:	0.00025492 g
Conventional Mass:	3.00024573 g	CMx Correction:	0.00024573 g
		Tolerance Class:	4
Uncertainty:	0.00000704 g	Tolerance:	0.0003 g
Air Density:	0.00120229 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.5 °C
Weight #:	10	Pressure:	766 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	2 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.000001 g	S: 2grl	2.00001238 g	0.00000595 g	7.95 g/cm3
X+Tx:	0.0000608 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050651 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050039 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	2.00007813 g	Mx Correction:	0.00007813 g
Conventional Mass:	2.00007201 g	CMx Correction:	0.00007201 g
		Tolerance Class:	4
Uncertainty:	0.00000704 g	Tolerance:	0.00026 g
Air Density:	0.00120172 g/cm3	Accept/Reject:	A

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(402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 45

Agency: Food Safety & Consumer Protection
Area 45

NE Cert No: 20130086

Date: 8/12/2013

P.O. No:

Observer: CEO

Submitted By: Gary Kliment

Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.5 °C
Weight #:	11	Pressure:	766 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	1 g	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	1 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000011 g	S: 1grl	1.00001237 g	0.000004 g	7.95 g/cm3
X+Tx:	-0.0000096 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049956 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050076 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	1.00000314 g	Mx Correction:	0.00000314 g
Conventional Mass:	1.00000008 g	CMx Correction:	0.00000008 g
		Tolerance Class:	4
Uncertainty:	0.00000496 g	Tolerance:	0.0002 g
Air Density:	0.00120172 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.7 °C
Weight #:	12	Pressure:	766 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	500 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.5 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 500mgrl	0.50000616 g	0.00000348 g	7.95 g/cm3
X+Tx:	0.0000262 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050311 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050047 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.50003357 g	Mx Correction:	0.00003357 g
Conventional Mass:	0.50003204 g	CMx Correction:	0.00003204 g
		Tolerance Class:	4
Uncertainty:	0.00000456 g	Tolerance:	0.00016 g
Air Density:	0.00120083 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.7 °C
Weight #:	13	Pressure:	766 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	200 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000003 g	S: 200mgrl	0.20000005 g	0.00000332 g	7.95 g/cm3
X+Tx:	-0.0000139 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049915 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050058 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.19998652 g	Mx Correction:	-0.00001348 g
Conventional Mass:	0.19998591 g	CMx Correction:	-0.00001409 g
		Tolerance Class:	4
Uncertainty:	0.00000443 g	Tolerance:	0.00012 g
Air Density:	0.00120083 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.4 °C
Weight #:	14	Pressure:	766 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	200 mg*	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000013 g	S: 200mgrl	0.20000005 g	0.00000332 g	7.95 g/cm3
X+Tx:	-0.0000219 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049838 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050082 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.19997668 g	Mx Correction:	-0.00002332 g
Conventional Mass:	0.19997606 g	CMx Correction:	-0.00002394 g
		Tolerance Class:	4
Uncertainty:	0.00000443 g	Tolerance:	0.00012 g
Air Density:	0.00120216 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #: WM-G89-3
 Weight #: 15
 Retest #: 0
 Denomination: 100 mg
 Density: 7.84 g/cm³
 Eq Wt/grams: 0.1 g

Temperature: 21.4 °C
 Pressure: 766 mm/Hg
 Rel Humidity: 53 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000002 g	S: 100mgrl	0.09999769 g	0.0000043 g	7.95 g/cm ³
X+Tx:	-0.0000749 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0049307 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050059 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.09992276 g	Mx Correction:	-0.00007724 g
Conventional Mass:	0.09992245 g	CMx Correction:	-0.00007755 g
		Tolerance Class:	4
Uncertainty:	0.00000516 g	Tolerance:	0.0001 g
Air Density:	0.00120216 g/cm ³	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #: WM-G89-3
 Weight #: 16
 Retest #: 0
 Denomination: 50 mg
 Density: 7.84 g/cm³
 Eq Wt/grams: 0.05 g

Temperature: 21.3 °C
 Pressure: 766.2 mm/Hg
 Rel Humidity: 53 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000002 g	S: 50mgrl	0.05000304 g	0.00000429 g	7.95 g/cm ³
X+Tx:	0.0000069 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0050122 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050062 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.05000970 g	Mx Correction:	0.00000970 g
Conventional Mass:	0.05000954 g	CMx Correction:	0.00000954 g
		Tolerance Class:	4
Uncertainty:	0.00000515 g	Tolerance:	0.000085 g
Air Density:	0.00120292 g/cm ³	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #: WM-G89-3
 Weight #: 17
 Retest #: 0
 Denomination: 20 mg
 Density: 2.7 g/cm³
 Eq Wt/grams: 0.02 g

Temperature: 21.3 °C
 Pressure: 766.2 mm/Hg
 Rel Humidity: 53 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000005 g	S: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm ³
X+Tx:	0.0000203 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.005026 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050063 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.02002381 g	Mx Correction:	0.00002381 g
Conventional Mass:	0.02001791 g	CMx Correction:	0.00001791 g
		Tolerance Class:	4
Uncertainty:	0.00000515 g	Tolerance:	0.00007 g
Air Density:	0.00120292 g/cm ³	Accept/Reject:	A

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Serial #: WM-G89-3
 Weight #: 18
 Retest #: 0
 Denomination: 20 mg*
 Density: 2.7 g/cm3
 Eq Wt/grams: 0.02 g

Temperature: 21.3 °C
 Pressure: 766.2 mm/Hg
 Rel Humidity: 53 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000048 g	S: 20mgrl	0.01999817 g	0.00000429 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:	0.0050201 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050107 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.02001361 g	Mx Correction:	0.00001361 g
Conventional Mass:	0.02000771 g	CMx Correction:	0.00000771 g
		Tolerance Class:	4
Uncertainty:	0.00000515 g	Tolerance:	0.00007 g
Air Density:	0.00120292 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #: WM-G89-3
 Weight #: 19
 Retest #: 0
 Denomination: 10 mg
 Density: 2.7 g/cm³
 Eq Wt/grams: 0.01 g

Temperature: 21.3 °C
 Pressure: 766.2 mm/Hg
 Rel Humidity: 53 %
 Comparator Used: CCE6_10MG
 Pooled Std.Dev.: 0.0000005 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000013 g	S: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm ³
X+Tx:	-0.0000313 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0049736 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050045 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.00997444 g	Mx Correction:	-0.00002556 g
Conventional Mass:	0.00997151 g	CMx Correction:	-0.00002849 g
		Tolerance Class:	4
Uncertainty:	0.00000308 g	Tolerance:	0.00006 g
Air Density:	0.00120292 g/cm ³	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.6 °C
Weight #:	20	Pressure:	766.2 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	5 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.005 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000004 g	S: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx:	0.0000138 g	SW: 2mgrl	0.00200303 g	0.0000023 g	7.95 g/cm3
X+Tx+SW:	0.0020175 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0020054 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00501949 g	Mx Correction:	0.00001949 g
Conventional Mass:	0.00501801 g	CMx Correction:	0.00001801 g
		Tolerance Class:	4
Uncertainty:	0.00000223 g	Tolerance:	0.000055 g
Air Density:	0.00120159 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-3	Temperature:	21.6 °C
Weight #:	21	Pressure:	766.2 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	2 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.002 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000009 g	S: 2mgrl	0.00200303 g	0.0000023 g	7.95 g/cm3
X+Tx:	0.0000088 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030117 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030046 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00201112 g	Mx Correction:	0.00001112 g
Conventional Mass:	0.00201053 g	CMx Correction:	0.00001053 g
		Tolerance Class:	4
Uncertainty:	0.00000318 g	Tolerance:	0.00005 g
Air Density:	0.00120159 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-3	Temperature:	21.6 °C
Weight #:	22	Pressure:	766.2 mm/Hg
Retest #:	0	Rel Humidity:	53 %
Denomination:	2 mg*	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.002 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000015 g	S: 2mgrl	0.00200303 g	0.0000023 g	7.95 g/cm3
X+Tx:	0.000001 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0030037 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030052 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00200262 g	Mx Correction:	0.00000262 g
Conventional Mass:	0.00200203 g	CMx Correction:	0.00000203 g
		Tolerance Class:	4
Uncertainty:	0.00000318 g	Tolerance:	0.00005 g
Air Density:	0.00120159 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #: WM-G89-3
 Weight #: 23
 Retest #: 0
 Denomination: 1 mg
 Density: 2.7 g/cm3
 Eq Wt/grams: 0.001 g

Temperature: 21.6 °C
 Pressure: 766.2 mm/Hg
 Rel Humidity: 53 %
 Comparator Used: CCE6_10MG
 Pooled Std.Dev.: 0.0000005 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 1mgrl	0.00100504 g	0.00000229 g	7.95 g/cm3
X+Tx:	-0.0000059 g	SW: 3mgrl	0.00300303 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0029967 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0030025 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00099953 g	Mx Correction:	-0.00000047 g
Conventional Mass:	0.00099924 g	CMx Correction:	-0.00000076 g
		Tolerance Class:	4
Uncertainty:	0.00000317 g	Tolerance:	0.00005 g
Air Density:	0.00120159 g/cm3	Accept/Reject:	A

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SOP 4 - Double Substitution - Summary Of Test Results

Agency ID: 45

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NE Cert No: 20130086

Date: 8/12/2013

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
4 kg	WM-1	1	3999.97201076	3999.96054416	0.00047693	IC10000S_5k	3kg
300 g	WM-G89-3	1	300.00568323	300.00476471	0.00008758	IC1201_300g	300g
200 g	WM-G89-3	2	200.00153572	200.00092338	0.00013790	IC1201_200g	200g
100 g	WM-G89-3	3	100.00034490	100.00003873	0.00002981	AT106_100g	100grl
50 g	WM-G89-3	4	50.00065244	50.00049936	0.00002818	AT106_50g	50grl
30 g	WM-G89-3	5	30.00066864	30.00057679	0.00002761	AT106_50g	30grl
20 g	WM-G89-3	6	20.00027439	20.00021315	0.00001999	AT106_20g	20grl
10 g	WM-G89-3	7	10.00023016	10.00019954	0.00002397	AT106_10g	10grl
5 g	WM-G89-3	8	5.00022007	5.00020476	0.00000704	CCE6_5G	5grl
3 g	WM-G89-3	9	3.00025492	3.00024573	0.00000704	CCE6_5G	3grl
2 g	WM-G89-3	10	2.00007813	2.00007201	0.00000704	CCE6_5G	2grl
1 g	WM-G89-3	11	1.00000314	1.00000008	0.00000496	CCE6_1G	1grl
500 mg	WM-G89-3	12	0.50003357	0.50003204	0.00000456	CCE6_1G	500mgrl
200 mg	WM-G89-3	13	0.19998652	0.19998591	0.00000443	CCE6_1G	200mgrl
200 mg*	WM-G89-3	14	0.19997668	0.19997606	0.00000443	CCE6_1G	200mgrl
100 mg	WM-G89-3	15	0.09992276	0.09992245	0.00000516	ICE6_100MG	100mgrl
50 mg	WM-G89-3	16	0.05000970	0.05000954	0.00000515	ICE6_100MG	50mgrl
20 mg	WM-G89-3	17	0.02002381	0.02001791	0.00000515	ICE6_100MG	20mgrl
20 mg*	WM-G89-3	18	0.02001361	0.02000771	0.00000515	ICE6_100MG	20mgrl
10 mg	WM-G89-3	19	0.00997444	0.00997151	0.00000308	CCE6_10MG	10mgrl

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.

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
5 mg	WM-G89-3	20	0.00501949	0.00501801	0.00000223	CCE6_10MG	5mgrl
2 mg	WM-G89-3	21	0.00201112	0.00201053	0.00000318	CCE6_10MG	2mgrl
2 mg*	WM-G89-3	22	0.00200262	0.00200203	0.00000318	CCE6_10MG	2mgrl
1 mg	WM-G89-3	23	0.00099953	0.00099924	0.00000317	CCE6_10MG	1mgrl

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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.

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

SOP 19 - Volume Transfer Test Results

Agency ID: 45

Agency: Food Safety & Consumer Protection
Area 45

Form No.: NE03LF12-R00

NE Cert No: 20130086

Date: 8/12/2013

P.O. No:

Submitted By: Gary Kliment

Page 1 of 10

Serial #: 0247
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	66.1 °F	0.998414	0 in3

Test Measure Information

Water Temperature: 66.1 °F
Water Density: 0.998414 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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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	65.7 °F	0.998457	0 in3

Test Measure Information

Water Temperature: 65.7 °F
Water Density: 0.998457 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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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	67.7 °F	0.998237	0 in3

Test Measure Information

Water Temperature: 67.7 °F
Water Density: 0.998237 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Observer: CEO

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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	66.9 °F	0.998327	0 in3

Test Measure Information

Water Temperature: 66.9 °F
Water Density: 0.998327 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 0249
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	67.3 °F	0.998282	0 in3

Test Measure Information

Water Temperature: 67.3 °F
Water Density: 0.998282 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 0249
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	67.3 °F	0.998282	0 in3

Test Measure Information

Water Temperature: 67.3 °F
Water Density: 0.998282 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 4393-5-E
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	64.6 °F	0.998573	0 in3

Test Measure Information

Water Temperature: 64.8 °F
Water Density: 0.998573 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 4393-5-E
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	64.9 °F	0.998542	0 in3

Test Measure Information

Water Temperature: 65 °F
Water Density: 0.998542 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Agency ID: 45

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Serial #: 4393-5-F
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	65.6 °F	0.998468	0 in3

Test Measure Information

Water Temperature: 65.7 °F
Water Density: 0.998468 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: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 4393-5-F
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	65.3 °F	0.998500	0 in3

Test Measure Information

Water Temperature: 65.4 °F
Water Density: 0.998500 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9996 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Lincoln, NE 68524
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

Agency ID: 45
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 Area 45

NE Cert No: 20130086
 Date: 8/12/2013
 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
11570	1	0	0.3 lb	CC1201_8 oz	NSL-WK1	0.0093151 g	0.027 g	0.0008082 g	A
11570	2	0	0.2 lb	AT106_0.2 lb	NSL-WK2	0.0074374 g	0.018 g	0.0000444 g	A
11570	3	0	0.1 lb	AT106_0.2 lb	NSL-WK3	-0.0040533 g	0.0091 g	0.0000379 g	A
11570	4	0	0.05 lb	AT106_0.05 lb	NSL-WK4	0.0015262 g	0.0045 g	0.0000359 g	A
11570	5	0	0.03 lb	AT106_0.05 lb	NSL-WK5	0.0011708 g	0.0027 g	0.0000274 g	A
11570	6	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0004034 g	0.0018 g	0.0000279 g	A
11570	7	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0005529 g	0.0015 g	0.0000158 g	A
11570	8	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	0.0003904 g	0.0012 g	0.0000057 g	A
11570	9	0	0.003 lb	CCE6_0.01 lb	NSL-WK9	0.0002779 g	0.00099 g	0.0000057 g	A
11570	10	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0004437 g	0.00087 g	0.0000052 g	A
11570	11	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0000061 g	0.0007 g	0.0000052 g	A
11570	12	0	0.001 lb*	CCE6_0.01 lb	NSL-WK11	0.0002609 g	0.0007 g	0.0000052 g	A
11-OPI-85	1	0	2 lb	CC1201_2 lb	NSL-2-1	0.0402645 g	0.091 g	0.0008172 g	A
11-OPI-85	2	0	2 lb	CC1201_2 lb	NSL-2-1	0.0244645 g	0.091 g	0.0008172 g	A
11-OPI-85	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0893355 g	0.091 g	0.0008172 g	A
11-OPI-85	4	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0098355 g	0.091 g	0.0008172 g	A
11-OPI-85	5	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0851355 g	0.091 g	0.0008172 g	A
11-OPI-85	6	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0600355 g	0.091 g	0.0008172 g	A
11-OPI-85	7	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0578355 g	0.091 g	0.0008172 g	A
11-OPI-85	8	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0804355 g	0.091 g	0.0008172 g	A
11-OPI-85	9	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0768355 g	0.091 g	0.0008172 g	A
11-OPI-85	10	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0610355 g	0.091 g	0.0008172 g	A
11-OPI-85	11	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0914355 g	0.091 g	0.0008172 g	R
11-OPI-85	11	1	2 lb	CC1201_2 lb	NSL-2-1	0.0303645 g	0.091 g	0.0008172 g	A
11-OPI-85	12	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0878355 g	0.091 g	0.0008172 g	A
11-OPI-85	13	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0850355 g	0.091 g	0.0008172 g	A

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

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
11-OPI-85	14	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0885355 g	0.091 g	0.0008172 g	A
11-OPI-85	15	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0522832 g	0.07 g	0.0007899 g	A
11-OPI-85	16	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0531832 g	0.07 g	0.0007899 g	A
11-OPI-85	17	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0280778 g	0.045 g	0.0008099 g	A
11-OPI-85	18	0	4 oz	CC1201_8 oz	NSL-Z	-0.0201803 g	0.023 g	0.0004080 g	A
11-OPI-85	19	0	2 oz	AT106_0.2 lb	NSL-Y	-0.0107784 g	0.011 g	0.0000381 g	A
11-OPI-85	20	0	1 oz	AT106_0.2 lb	2A9-1oz	0.0002285 g	0.0054 g	0.0000347 g	A
11-OPI-85	21	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	0.0008372 g	0.0028 g	0.0000264 g	A
11-OPI-85	22	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	0.0006227 g	0.0017 g	0.0000236 g	A
11-OPI-85	23	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	0.0002177 g	0.0013 g	0.0000124 g	A
11-OPI-85	24	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	0.0001042 g	0.0011 g	0.0000063 g	A
11-OPI-85	25	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	0.0004435 g	0.0011 g	0.0000063 g	A
N-99-B	1	0	0.2 lb	AT106_0.2 lb	NSL-WK2	0.0076884 g	0.018 g	0.0000444 g	A
N-99-B	2	0	0.2 lb*	AT106_0.2 lb	NSL-WK2	0.0076374 g	0.018 g	0.0000444 g	A
N-99-B	3	0	0.1 lb	AT106_0.2 lb	NSL-WK3	0.0032607 g	0.0091 g	0.0000379 g	A
N-99-B	4	0	0.05 lb	AT106_0.05 lb	NSL-WK4	-0.0001988 g	0.0045 g	0.0000359 g	A
N-99-B	5	0	0.02 lb	AT106_0.05 lb	NSL-WK6	-0.0008566 g	0.0018 g	0.0000279 g	A
N-99-B	6	0	0.02 lb*	AT106_0.05 lb	NSL-WK6	-0.0005506 g	0.0018 g	0.0000279 g	A
N-99-B	7	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0001046 g	0.0015 g	0.0000158 g	A
N-99-B	8	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0000692 g	0.0012 g	0.0000057 g	A
N-99-B	9	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	-0.0004082 g	0.00087 g	0.0000052 g	A
N-99-B	10	0	0.002 lb*	CCE6_0.01 lb	NSL-WK10	-0.0006206 g	0.00087 g	0.0000052 g	A
N-99-B	11	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0004033 g	0.0007 g	0.0000052 g	A
NE-21	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.2303931 g	1.1 g	0.0357391 g	A
NE-22	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8753931 g	1.1 g	0.0357391 g	A
NE-24	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2453931 g	1.1 g	0.0357391 g	R
NE-24	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.1496069 g	1.1 g	0.0357391 g	A
NE-25	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4403931 g	1.1 g	0.0357391 g	A
NE-26	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3653931 g	1.1 g	0.0357391 g	A
NE-30	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0153931 g	1.1 g	0.0357391 g	A
NE-30	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4553931 g	1.1 g	0.0357391 g	A
NE-31	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7503931 g	1.1 g	0.0357391 g	A
NE-32	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9653931 g	1.1 g	0.0357391 g	A

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
NE-33	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8603931 g	1.1 g	0.0357391 g	A
NE-34	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5403931 g	1.1 g	0.0357391 g	A
NE-35	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0403931 g	1.1 g	0.0357391 g	A
NE-36	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0846069 g	1.1 g	0.0357391 g	A
NE-37	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0253931 g	1.1 g	0.0357391 g	A
NE-40	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8853931 g	1.1 g	0.0357391 g	A
WM25-114	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4553931 g	1.1 g	0.0357391 g	A
WM25-116	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0096069 g	1.1 g	0.0357391 g	A
WM25-117	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7696069 g	1.1 g	0.0357391 g	A
WM25-119	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3846069 g	1.1 g	0.0357391 g	A
WM25-124	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9796069 g	1.1 g	0.0357391 g	A
WM25-127	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2946069 g	1.1 g	0.0357391 g	A
WM25-131	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.0196069 g	1.1 g	0.0357391 g	A
WM25-42	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0846069 g	1.1 g	0.0357391 g	A
WM25-43	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4653931 g	1.1 g	0.0357391 g	A
WM25-44	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7153931 g	1.1 g	0.0357391 g	A

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