DEBRASH	Roots.		Nebraska Standards Laboratory 3721 West Cuming St. Lincoln, NE 68524 (402) 471-2087					Director of Agriculture Greg Ibach P.O. Box 94947 Lincoln, NE 68509-4947 (402) 471-2341 www.nda.nebraska.gov	
Calibration	Date:	10/2/2017			te of Calibra		Certificate	Number:	2017-029-1
				of Volu	<u>ime Transfe</u>	r			
			Items Su	bmitted:		Submitted By:	FSCP Area 80		
	Quantity	Nominal Volume	Manu	ufacturer	Туре		11748 Mayberry Omaha NE, 681		
	2	5 gal	Sei	raphin	Test Measure		Contraction Hike Johnson 402-416-5256		
							402-410-3230		
					est Results				-
	Nominal Volume	Serial Number	Material	Cubical Coefficient of Expansion (/°F)	As Found Volume Delivered @ 60 °F	As left Volume Delivered @ 60 °F	Uncertainty (U)	(<i>k</i>)	
	5 gal	4393-5-B	SS	0.0000265	4.99815 gal	4.99815 gal	0.00061 gal	2.03	
	5 gal	39423 G	SS	0.0000265	5.0001 gal	5.0001 gal	0.00061 gal	2.03	
Conversion Factors:		ered at 60°F after a 30				ically listed on this re		ime would apply.	
Traceability Statement:	1 gal = 231 in 1 gal = 3.785								
The artifact(s) describe International System o ensuring continued ac calibration number to b	f Units (SI) thr curacy and me	ough the National leasurement traceat	nstitute of S ality within th	tandards and T le level of unce	echnology (NIST) rtainty reported by	and are part of a c this laboratory. Th	comprehensive me	asurement ass	urance program for
Uncertainty Statement:									
The combined standar deviations from referer multiplied by a coverag this report is consisten Type A evaluation, or t	nce values wh ge factor (<i>k</i>), t t with the Guid	ich are less than su o give the expande le to the Expressior	rveillance lir d uncertainty of Uncertai	nits and the sta y, which defines nty in Measure	ndard uncertainty s an interval with a ment (2008, revise	for any uncorrecte 95.45 percent leve ed 2012). Some co	d errors. The coml el of confidence. Tl omponents of the c	bined standard he expanded u	uncertainty is ncertainty presented in

Pertinent Information:

The artifact(s) listed above have been found and/or left within the maximum permissible error for the specification stated above, except as noted. An artifact is considered incompliance when the correction plus the measurement uncertainty is equal to or less than the maximum permissible error.

Condition of Item(s) Submitted for Calibration:

Minor wear

Treatment of Item(s) before Calibration:

Item(s) were tested as found

Environmental conditions at time of calibration:

Temp °C	21.9	Humidity %	49.4					
Pressure mmHg	763.00							
Date Submitted:	9/28/2017							
gone	P.J							
Joel P. Lavicky, Metrologist								

Laboratory Reference Standard Used: 5 gal SP NE 1586

Procedure Used: NISTIR 7383 (2017), SOP 19

Water temperature at time of calibration: 67.73 °F

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10/6/2017

Date:

OCALIBRAS	at Roots Griculture	5.	N	3721 Lin (4 Certific	tandards Lab West Cuming St. coln, NE 68524 .02) 471-2087 ate of Calibra Jume Transfel	tion	Certificate	e Number:	Director of Agriculture Greg Ibach P.O. Box 94947 Lincoln, NE 68509-4947 (402) 471-2341 www.nda.nebraska.gov 2017-029-2
			Items St	ubmitted:		Submitted By:			
	Quantity	Nominal Volume	Mar	nufacturer	Туре		11748 Mayberry I Omaha NE, 6815		
	3	5 gal	S	eraphin	"Special" J Prover POC: Mike Johnson				
					est Results		402-416-5256		
	Nominal Volume	Serial Number	Material	Cubical Coefficient of Expansion (/°F)	As Found Volume Delivered @ 60 °F	As left Volume Delivered @ 60 °F	Uncertainty (U)	(k)	
	5 gal	04-20943-01	SS	0.0000265	4.99969 gal	4.99969 gal	0.00061 gal	2.03	
	5 gal	04-20943-02	SS	0.0000265	4.99948 gal	4.99948 gal	0.00061 gal	2.03	
	5 gal	04-20943-03	SS	0.0000265	4.99948 gal	4.99948 gal	0.00061 gal	2.03	
	Volume del				blies to those items s second drain for tes would apply.			cond drain time	

Conversion Factors:

1 gal = 231 in³ 1 gal = 3.785 412 E-03 m³

Traceability Statement:

The artifact(s) described in this report have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this report is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this report.

Uncertainty Statement:

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits and the standard uncertainty for any uncorrected errors. The combined standard uncertainty is multiplied by a coverage factor (k), to give the expanded uncertainty, which defines an interval with a 95.45 percent level of confidence. The expanded uncertainty presented in this report is consistent with the Guide to the Expression of Uncertainty in Measurement (2008, revised 2012). Some components of the calibration can be evaluated through a Type A evaluation, or the method of evaluation of uncertainty by the statistical analysis (standard deviation) from the observations taken.

Pertinent Information:

The artifact(s) listed above have been found and/or left within the maximum permissible error for the specification stated above, except as noted. An artifact is considered incompliance when the correction plus the measurement uncertainty is equal to or less than the maximum permissible error.

Condition of Item(s) Submitted for Calibration: Minor wear

Laboratory Reference Standard Used; 5 gal SP NE 1586

Procedure Used:

Treatment of Item(s) before Calibration:

Item(s) were tested as found	NISTIR 7383 (2017), SOP 19
Environmental conditions at time of calibration:	Water temperature at time of calibration:
Temp °C 21.9 Humidity % 49.4	<u>. 67.58</u> °F
Pressure mmHg 763.00	
Date Submitted: 9/28/2017	
gove P 3	10/6/2017
Joel P. Lavicky, Metrologist	Date:
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NEBRASKA		Di	rector of Agriculture							
NLDRAJAA	Nebraska Standards La	-	Greg Ibach							
Carallifa Curat Daata	3721 West Cuming St		P.O. Box 94947							
Good Life. Great Roots.	Lincoln, NE 68524	Li	ncoln, NE 68509-4947							
	(402)-471-2087		(402) 471-2341							
DEPARTMENT OF AGRICULTURE		WW	w.nda.nebraska.gov							
Calibration Certificate of Mass										
Calibration Date: October 4,	2017	Certificate Number:	2017-029-3							
<mark>Submitted By</mark> : FSCP Area 80 11748 Mayberry Omaha, NE 685		Point of Contact: Mike Johnson Ph. 402-416-5 <u>email:</u> mike.d.johnson PO Number:	5256							
Test Item(s): 31 lb weight kit	Artifact(s) Description	n: Date Received:	September 26, 2017							
Serial Number(s): 9-OPI-11		ID / Asset Number:	N/A							
Manufacture: Tromner		Class Specification:	NIST Class F							
Condition: Good (some wear)	Material:	Stainless Steel							
Reference Standards Used:	Procedure Used:	<u>Equipm</u>	ent Used:							
NSL lb standards	NIST HB 6969, SOP 8	Sartorius CCE6	Sartorius CC 1201							
	<u>Metrologist:</u> JPL	Mettler AT 106								
Environmental Cond. Temp: 22.		Relative Humidity: 47.5 %								
	Pertinent Informatio									
. ,	nt have been found and/or left within the	•	•							
	considered in-compliance when the correct mum permissible error. RED print indicate	•	nty is equal to or less							
-	correlate to a "Conventional Mass" (CM) erence mass density and an air density of		le verses 8.0 g/cm³							

Traceability Statement

The artifact(s) described in this certificate have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this certificate is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this certificate.

Uncertainty Statement

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Nebraska Standards Laboratory

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3721 West Cuming St. Lincoln, NE 68524 (402)-471-2087

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Cortificato Numbor:

Director of Agriculture Greg Ibach P.O. Box 94947 Lincoln, NE 68509-4947 (402) 471-2341 www.nda.nebraska.gov

2017-020-2

DEPARTMENT OF AGRICULTURE

Calibration Date: October 4, 2017

Calibra	ation Date:	October 4, 20	17	l	Certific	ate Numb	per: 2017	-029-3		
	Calibration Results									
Nominal Mass	Serial Number / ID	As Found Conventional Mass Correction (g)	Adjusted (Y/N)	As Left Conventional Mass Correction (g)	Uncertainty ± (g)	(k) factor	NIST Class F MPE ± (g)	Assumed Density (g/cm ³)		
2 lb	1	-0.055	n	-0.055	0.011	2	0.091	7.84		
2 lb	2	-0.055	n	-0.055	0.011	2	0.091	7.84		
2 lb	3	-0.050	n	-0.050	0.011	2	0.091	7.84		
2 lb	4	-0.033	n	-0.033	0.011	2	0.091	7.84		
2 lb	5	-0.042	n	-0.042	0.011	2	0.091	7.84		
2 lb	6	-0.030	n	-0.030	0.011	2	0.091	7.84		
2 lb	7	-0.039	n	-0.039	0.011	2	0.091	7.84		
2 lb	8	-0.058	n	-0.058	0.011	2	0.091	7.84		
2 lb	9	-0.032	n	-0.032	0.011	2	0.091	7.84		
2 lb	10	-0.052	n	-0.052	0.011	2	0.091	7.84		
2 lb	11	-0.035	n	-0.035	0.011	2	0.091	7.84		
2 lb	12	-0.053	n	-0.053	0.011	2	0.091	7.84		
2 lb	13	-0.020	n	-0.020	0.011	2	0.091	7.84		
2 lb	14	-0.058	n	-0.058	0.011	2	0.091	7.84		
1 lb	15	-0.0279	n	-0.0279	0.0083	2	0.07	7.84		
8 oz		0.0013	n	0.0013	0.0054	2	0.045	7.84		
4 oz		-0.0033	n	-0.0033	0.0028	2	0.023	7.84		
2 oz		0.0001	n	0.0001	0.0013	2	0.011	7.84		
1 oz		0.00175	n	0.00175	0.00064	2	0.0054	7.84		
1/2 oz		0.00160	n	0.00160	0.00034	2	0.0028	7.84		
1/4 oz		0.00031	n	0.00031	0.00021	2	0.0017	7.84		
1/8 oz		-0.00036	n	-0.00036	0.00016	2	0.0013	7.84		
1/16 oz		-0.00018	n	-0.00018	0.00013	2	0.0011	7.84		
1/16 oz	*	0.00061	n	0.00061	0.00013	2	0.0011	7.84		
0.3 lb		-0.0097	n	-0.0097	0.0032	2	0.027	7.84		
0.2 lb		-0.0037	n	-0.0037	0.0022	2	0.018	7.84		
0.1 lb		-0.0009	n	-0.0009	0.0011	2	0.0091	7.84		
0.05 lb		-0.00044	n	-0.00044	0.00054	2	0.0045	7.84		
0.03 lb		-0.00111	n	-0.00111	0.00032	2	0.0027	7.84		
0.02 lb		-0.00152	<u>n</u>	-0.00152	0.00022	2	0.0018	7.84		
0.01 lb		0.00050	<u>n</u>	0.00050	0.00018	2	0.0015	7.84		
0.005 lb		-0.00010	n	-0.00010	0.00015	2	0.0012	2.7		
0.003 lb 0.002 lb		-0.00045 -0.00040	n	-0.00045	0.00012 0.00011	2	0.00099 0.00087	2.7		
0.002 lb 0.001 lb		-0.00040	<u>n</u>	-0.00040 -0.000221	0.00011	2	0.00087	2.7		
0.001 lb	*	-0.000221	n n	-0.000221	0.000083	2	0.0007	2.7		
0.001 ID	•	-0.000100	11	-0.000100	0.000003	۷.	0.0007	۷./		

Conversion Factors

1 ounce (avoirdupois) (oz) = 28.349 52 g

1 pound (avoirdupois) (lb) = 453.592 37 g exactly

Jone P. Z Joel P. Lavicky Metrologist

10/9/2017 Date of Issue

The results in this certificate only applies to those item specifically listed in this certificate. This certificate cannot be considered complete unless it contains <u>all</u> pages. This document may not be reproduced except in <u>full</u>, without the written consent of the Nebraska Standards Laboratory.

NEBRASKA		D	irector of Agriculture							
NLDRAJAA	Nebraska Standards La	-	Greg Ibach							
Canal Life Creat Deate	3721 West Cuming St		P.O. Box 94947							
Good Life. Great Roots.	Lincoln, NE 68524	L	incoln, NE 68509-4947							
	(402)-471-2087		(402) 471-2341							
DEPARTMENT OF AGRICULTURE			vw.nda.nebraska.gov							
Calibration Certificate of Mass										
Calibration Date: October 4, 2	2017	Certificate Number:	2017-029-4							
<u>Submitted By</u> : FSCP Area 80 11748 Mayberry Omaha, NE 6851		Point of Contact: Mike Johnson Ph. 402-416- <u>email:</u> mike.d.johnso PO Number:	5256							
Test Item(s): 8 lb weight kit	Artifact(s) Descriptio	n: Date Received	: September 26, 2017							
Serial Number(s): 9-OPI-3		ID / Asset Number	: N/A							
Manufacture: Tromner		Class Specification	: NIST Class F							
Condition: Good (some wear)		Material	: Stainless Steel							
Reference Standards Used:	Procedure Used:	Equipr	nent Used:							
NSL lb standards	NIST HB 6969, SOP 8	Sartorius CCE	6 Sartorius CC 1201							
	<u>Metrologist:</u> JPL	Mettler AT 10	6							
Environmental Cond. Temp: 22.7		Relative Humidity: 47.5 %								
	Pertinent Informatio									
. ,	t have been found and/or left within the	•								
above, except as noted. An artifact is co than the maxim	num permissible error. RED print indicate	•	inty is equal to or less							
•	correlate to a "Conventional Mass" (CM) rence mass density and an air density of	•••	ale verses 8.0 g/cm³							

Traceability Statement

The artifact(s) described in this certificate have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this certificate is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this certificate.

Uncertainty Statement

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits and the standard uncertainty for any uncorrected errors associated with air buoyance corrections. The combined standard uncertainty is multiplied by a coverage factor (*k*), to give the expanded uncertainty, which defines an interval with a 95.45 percent level of confidence. The expanded uncertainty presented in this report is consistent with the *Guide to the Expression of Uncertainty in Measurement (2008, revised 2012)*. Some components of the calibration can be evaluated through a Type A evaluation, or the method of evaluation of uncertainty by the statistical analysis (standard deviation) from the observations taken. Magnetic testing has not been performed, therefore, there are no components for the effects of it in the uncertainty budget.



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DEPARTMENT OF AGRICULTURE

Calibra	ation Date:	October 4, 20	17		Certific	ate Num	ber: 2017-	-029-4	
	Calibration Results								
Nominal Mass	Serial Number / ID	As Found Conventional Mass Correction (g)	Adjusted (Y/N)	As Left Conventional Mass Correction (g)	Uncertainty ± (g)	(k) factor	NIST Class F MPE ± (g)	Assumed Density (g/cm ³)	
2 lb	1	0.014	n	0.014	0.011	2	0.091	7.84	
2 lb	2	0.037	n	0.037	0.011	2	0.091	7.84	
2 lb	3	0.028	n	0.028	0.011	2	0.091	7.84	
1 lb	4	-0.0031	n	-0.0031	0.0083	2	0.07	7.84	
8 oz		-0.0061	n	-0.0061	0.0054	2	0.045	7.84	
4 oz		-0.0085	n	-0.0085	0.0028	2	0.023	7.84	
2 oz		0.0058	n	0.0058	0.0013	2	0.011	7.84	
1 oz		-0.00004	n	-0.00004	0.00064	2	0.0054	7.84	
1/2 oz		-0.00026	n	-0.00026	0.00034	2	0.0028	7.84	
1/4 oz		0.00038	n	0.00038	0.00021	2	0.0017	7.84	
1/8 oz		-0.00073	n	-0.00073	0.00016	2	0.0013	7.84	
1/16 oz		0.00027	n	0.00027	0.00013	2	0.0011	7.84	
1/16 oz	*	0.00029	n	0.00029	0.00013	2	0.0011	7.84	
0.3 lb		0.0005	n	0.0005	0.0032	2	0.027	7.84	
0.2 lb		-0.0064	n	-0.0064	0.0022	2	0.018	7.84	
0.1 lb		-0.0062	n	-0.0062	0.0011	2	0.0091	7.84	
0.05 lb		0.00265	n	0.00265	0.00054	2	0.0045	7.84	
0.03 lb		0.00206	n	0.00206	0.00032	2	0.0027	7.84	
0.02 lb		0.00019	n	0.00019	0.00022	2	0.0018	7.84	
0.01 lb		0.00001	n	0.00001	0.00018	2	0.0015	7.84	
0.005 lb		-0.00054	n	-0.00054	0.00015	2	0.0012	2.7	
0.003 lb		0.00029	n	0.00029	0.00012	2	0.00099	2.7	
0.002 lb		0.00058	n	0.00058	0.00011	2	0.00087	2.7	
0.001 lb	*	0.000229	n	0.000229	0.000083	2	0.0007	2.7	
0.001 lb	-1	0.000067	n	0.000067	0.000083	2	0.0007	Ζ./	

Conversion Factors

1 ounce (avoirdupois) (oz) = 28.349 52 g

1 pound (avoirdupois) (lb) = 453.592 37 g exactly

P. 3 Joel P. Lavicky Metrologist

10/9/2017 Date of Issue

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NEBRASKA		Director of Ag	riculture							
NEDRAJAA	Nebraska Standards Labo	oratory Gr	eg Ibach							
	3721 West Cuming St.	P.O. Bo	ox 94947							
Good Life. Great Roots.	Lincoln, NE 68524	Lincoln, NE 685	509-4947							
	(402)-471-2087	(402) 4	471-2341							
DEPARTMENT OF AGRICULTURE		www.nda.nebra	iska.gov							
Ca	Calibration Certificate of Mass									
Calibration Date: October 3, 2	017	Certificate Number: 2017-029-	5							
Submitted By: FSCP Area 80	P	oint of Contact: Mike Johnson								
11748 Mayberry	– Plaza	Ph. 402-416-5256								
Omaha, NE 6851	4	email: mike.d.johnson@nebraska.g	jov							
		PO Number:								
Test Item(s): 1-4 kg, 2-15 lb & 2	0-25 lb weights Artifact(s) Description:	Date Received: September 2	26, 2017							
Serial Number(s): See Next Page		ID / Asset Number: N/A								
Manufacture: Tromner / Rice La	ke	Class Specification: NIST Class	s F							
Condition: Good (some wear)		Material: SS and C	I							
Reference Standards Used:	Procedure Used:	Equipment Used:								
2kgd&2kg	NIST HB 6969, SOP 8	Sartorius CC10000S								
NEBR-STD-10&5	Metrologist:	Mettler KA30-3								
NSL-25-1-25lb	JPL									
Environmental Cond. Temp: 22.7		elative Humidity: 52 %								
	Pertinent Information									
		aximum permissible error for the specification on plus the measurement uncertainty is equal to								

than the maximum permissible error. RED print indicates an out-of-compliance reading.

• All corrections stated in this report correlate to a "Conventional Mass" (CM), also known as "apparent mass", scale verses 8.0 g/cm³ reference mass density and an air density of 1.2 mg/cm³ at 20 °C.

Traceability Statement

The artifact(s) described in this certificate have been compared to the Standards of the State of Nebraska. The Standards of the State of Nebraska are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The calibration number for this certificate is the only unique calibration number to be used in referencing measurement traceability for the artifact(s) described in this certificate.

Uncertainty Statement

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Nebraska Standards Laboratory

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DEPARTMENT OF AGRICULTURE

Calibra	ation Date:	October 3, 20	17		Certific	ate Num	ber: 2017	-029-5	
	Calibration Results								
Nominal Mass	Serial Number / ID	As Found Conventional Mass Correction (g)	Adjusted (Y/N)	As Left Conventional Mass Correction (g)	Uncertainty ± (g)	(k) factor	NIST Class F MPE ± (g)	Assumed Density (g/cm ³)	
4 kg	WM-6	0.006	n	0.006	0.048	2	0.4	7.94	
15 lb	WM15-11	0.260	n	0.260	0.081	2	0.68	7.2	
15 lb	WM15-12	0.133	n	0.133	0.081	2	0.68	7.2	
25 lb	NE-1	0.75	n	0.75	0.14	2	1.1	7.2	
25 lb	NE-2	0.92	У	0.10	0.14	2	1.1	7.2	
25 lb	NE-3	0.36	n	0.36	0.14	2	1.1	7.2	
25 lb	NE-4	0.62	n	0.62	0.14	2	1.1	7.2	
25 lb	NE-5	0.63	n	0.63	0.14	2	1.1	7.2	
25 lb	NE-6	0.28	n	0.28	0.14	2	1.1	7.2	
25 lb	NE-7	0.68	n	0.68	0.14	2	1.1	7.2	
25 lb	NE-8	0.41	n	0.41	0.14	2	1.1	7.2	
25 lb	NE-9	0.44	n	0.44	0.14	2	1.1	7.2	
25 lb	NE-10	0.30	n	0.30	0.14	2	1.1	7.2	
25 lb	NE-11	1.07	У	0.30	0.14	2	1.1	7.2	
25 lb	NE-12	0.24	n	0.24	0.14	2	1.1	7.2	
25 lb	NE-13	0.23	n	0.23	0.14	2	1.1	7.2	
25 lb	NE-14	0.26	n	0.26	0.14	2	1.1	7.2	
25 lb	NE-15	0.30	n	0.30	0.14	2	1.1	7.2	
25 lb	NE-16	0.29	n	0.29	0.14	2	1.1	7.2	
25 lb	NE-17	0.36	n	0.36	0.14	2	1.1	7.2	
25 lb	NE-18	0.61	n	0.61	0.14	2	1.1	7.2	
25 lb	NE-19	0.77	n	0.77	0.14	2	1.1	7.2	
25 lb	NE-20	0.31	n	0.31	0.14	2	1.1	7.2	

Conversion Factors

1 ounce (avoirdupois) (oz) = 28.349 52 g

1 pound (avoirdupois) (lb) = 453.592 37 g exactly

Joel P. Lavicky Metrologist

10/6/2017 Date of Issue

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