

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of k=2.

Remarks: None

Standards Used									
<u>Asset #</u>	Manufacturer	Model	Description	Cal Date	Due Date				
001704	RICE LAKE	1 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001705	RICE LAKE	2 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001706	RICE LAKE	2 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001707	RICE LAKE	5 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001708	RICE LAKE	10 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001709	RICE LAKE	20 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001710	RICE LAKE	20 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001711	RICE LAKE	50 G	WEIGHT, CLASS I	4-Aug-2009	4-Aug-2010				
001712	RICE LAKE	100 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001713	RICE LAKE	200 G	WEIGHT, CLASS 1	4-Aug-2009	4-Aug-2010				
001714	RICE LAKE	200 G	WEIGHT, CLASS S	4-Aug-2009	4-Aug-2010				

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Laboratory Manager m:\A2LA OCT_08.rpt

Conlos Mudoo

Carlos Mendoza Metrology Technician

Southwest Research Institute Calibration Laboratory Measurement Report

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Work Order: Asset No: Serial No:	303092054 002345 2883	Mfr: Model: Type:	Ohaus TS400D Balance		Technician: Type Data: Cal Date:	com Found-left 4-Jan-10	
Remarks:							
Function/Range	Applied	TI Reading	Difference	± Limit		Result	% Limi
Corner Load Front Rear Left Right	grams 400	grams 400.00 400.00 400.00 400.00	grams 0.00 0.00 0.00 0.00	grams 0.02		Pass Pass Pass Pass	0% 0% 0% 0%
Repeatability 40 gram Range 1 2 3 4 5 6 7 8 9 10 Std Deviation	40	40.001 40.001 40.001 40.001 40.001 40.001 40.001 40.001 40.001 40.001 0.0000		0.002		Pass	0%
400 gram Range 1 2 3 4 5 6 7 8 9 10 Std Deviation	200	200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 0.000		0.014		Pass	0%
40 gram Range Function/Range	Applied	TI Reading	Difference	± Limit	± Uncertainty	Result	_% Limi
Linearity	grams 0 4 8 12 16 20 24	grams 0.000 3.999 8.000 12.000 16.000 20.001 24.000	grams 0.000 -0.001 0.000 0.000 0.000 0.001 0.000	grams 0.002	grams 0.0012	Pass Pass Pass Pass Pass Pass Pass	0% 50% 0% 0% 50% 0%

Southwest Research Institute Calibration Laboratory Measurement Report

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Work Order: Asset No: Serial No:	303092054 002345 2883	Mfr: Model: Type:	Ohaus TS400D Balance		Technician: Type Data: Cal Date:	com Found- 4-Jan-1	
Function/Range	Applied	TI Reading	Difference	± Limit	± Uncertainty	Result	% Limit
40 gram Range	grams	grams	grams	grams	grams		
Linearity (cont.)	Ž28	28.001	0.001	0.002	0.0012	Pass	50%
••••	32	32.001	0.001			Pass	50%
	36	36.001	0.001			Pass	50%
	40	40.001	0.001			Pass	50%
Linearity	0	0.000	0.000	0.002	0.0012	Pass	0%
400 gram Range	40	40.001	0.001			Pass	50%
	80	80.00	0.00	0.02	0.012	Pass	0%
	120	120.00	0.00			Pass	0%
	160	160.00	0.00			Pass	0%
	200	200.00	0.00			Pass	0%
	240	240.00	0.00			Pass	0%
	280	280.00	0.00			Pass	0%
	320	320.00	0.00			Pass	0%
	360	360.00	0.00			Pass	0%
	400	400.00	0.00			Pass	0%
		END	OF REPORT				