



SOUTHWEST RESEARCH INSTITUTE®

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Certificate of Calibration

0972-01

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: METTLER PR5002
Description: BALANCE
Serial No: 1122142733
Asset No: 010225
Procedure: BALANCES & SCALES - 11 APR, 2006

Work Order: 303069101
Date Issued: May 9, 2006
Calibration Date: May 9, 2006
***Calibration Due:** Nov 9, 2006
Calibration Location: B57
Environment: Temp. 71.0°F Hum. 42 %RH
****Data Type:** FOUND-LEFT

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, 1999, 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. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

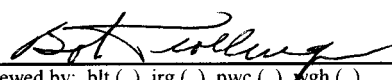
Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

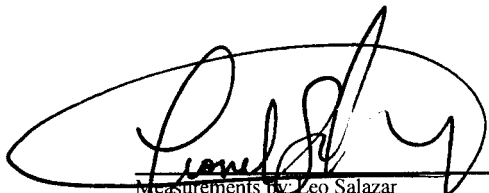
Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
001715	C870	RICE LAKE	500G	WEIGHT, CLASS S	Jul 06, 06
001716	C871	RICE LAKE	1KG	WEIGHT, CLASS S	Jul 06, 06
001717	C872	RICE LAKE	2KG	WEIGHT, CLASS 1	Jul 06, 06
001718	C873	RICE LAKE	2KG	WEIGHT, CLASS 1	Jul 06, 06
001719	C874	RICE LAKE	5KG	WEIGHT, CLASS 1	Jul 06, 06

120
--- Q200605160019
Instrument calibration record for Mettler
Balance, Model # PR 5002, Serial #
1122142733 (05/09/2006)


Reviewed by: blt () jrg () pwc () wgh ()
Metrology Technician


Measurements by: Leo Salazar
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303069101	Manufacturer:	Mettler	Technician:	lgs
Asset Number:	010225	Model:	PR5002	Cal Date:	09-May-06
Serial Number:	1122142733	Type:	Balance		
Remarks: Manufacturer does not provide corner load specifications. Corner load readings are without pass or fail indications.					
Ambient Conditions		72 ° F	42 % RH	14.33 PSIA	

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
	grams	grams	grams	grams	grams	Result
Corner Load						
Reference	2500.00	2499.89				
Front	2499.89	2499.99	0.10		0.0092	
Rear	2499.89	2499.89	0.00		0.0092	
Left	2499.89	2499.97	0.08		0.0092	
Right	2499.89	2499.97	0.08		0.0092	
Repeatability						
1	2500.00	2499.98				
2	2500.00	2499.97				
3	2500.00	2499.98				
4	2500.00	2499.97				
5	2500.00	2499.97				
6	2500.00	2499.97				
7	2500.00	2499.97				
8	2500.00	2499.97				
9	2500.00	2499.97				
10	2500.00	2499.97				
Std Deviation		0.004		0.005		Pass
Linearity	0.00	0.00	0.00	0.02	0.012	Pass
	500.00	499.99	-0.01	0.02	0.012	Pass
	1000.00	999.99	-0.01	0.02	0.012	Pass
	1500.00	1499.99	-0.01	0.02	0.012	Pass
	2000.00	1999.99	-0.01	0.02	0.012	Pass
	2500.00	2499.98	-0.02	0.02	0.012	Pass
	3000.00	2999.99	-0.01	0.02	0.012	Pass
	3500.00	3499.98	-0.02	0.02	0.012	Pass
	4000.00	3999.98	-0.02	0.02	0.012	Pass
	4500.00	4499.98	-0.02	0.02	0.012	Pass
	5000.00	4999.99	-0.01	0.02	0.012	Pass
End of Report						