SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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ACCREDITED
Certificate #
0972-01

Certificate of Calibration

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: 303071807
Date Issued: Nov 9, 2006
Calibration Date: Nov 8, 2006
***Calibration Due:** May 8, 2007
Calibration Location: B57
Environment: Temp. 69.3°F Hum. 74 %RH
****Data Type:** FOUND-LEFT
DivID/Location:

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, 07
001716	C871	RICE LAKE	1KG	WEIGHT, CLASS 1	Jun 28, 07
001717	C872	RICE LAKE	2KG	WEIGHT, CLASS 1	Jun 29, 07
001718	C873	RICE LAKE	2KG	WEIGHT, CLASS 1	Jun 28, 07
001719	C874	RICE LAKE	5KG	WEIGHT, CLASS 1	Jun 29, 07

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

Measurements by: Mark Romero
Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303071807	Mfr:	Mettler	Technician:	Mark Romero
Asset No:	010225	Model:	PR5002		
Serial No:	1122142733	Type:	Balance	Cal Date:	08-Nov-06
Remarks:					
Ambient Conditions	69.3 °F		74 % RH		14.21 PSIA

Function/Range	Applied	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Corner Load	grams	grams	grams	grams	grams	Result
Reference	2000.00					
Front	0.00	0.02	0.02	0.04		Pass
Rear	0.00	0.03	0.03	0.04		Pass
Left	0.00	0.00	0.00	0.04		Pass
Right	0.00	0.00	0.00	0.04		Pass
Repeatability						
1	2000.00	2000.01				
2	2000.00	2000.00				
3	2000.00	2000.00				
4	2000.00	2000.00				
5	2000.00	2000.00				
6	2000.00	1999.99				
7	2000.00	2000.00				
8	2000.00	2000.00				
9	2000.00	2000.00				
10	2000.00	1999.99				
Std Deviation		0.006		0.010		Pass
Linearity	0.00	0.00	0.00	0.04	0.019	Pass
	500.00	500.00	0.00	0.04	0.019	Pass
	1000.00	1000.00	0.00	0.04	0.019	Pass
	1500.00	1499.99	-0.01	0.04	0.019	Pass
	2000.00	2000.00	0.00	0.04	0.019	Pass
	2500.00	2500.00	0.00	0.04	0.019	Pass
	3000.00	3000.00	0.00	0.04	0.019	Pass
	3500.00	3500.00	0.00	0.04	0.019	Pass
	4000.00	4000.00	0.00	0.04	0.019	Pass
	4500.00	4500.00	0.00	0.04	0.019	Pass
	5000.00	5000.01	0.01	0.04	0.019	Pass

End of Report