WIKA Instruments India Pvt. Ltd.

Calibration Laboratory for Pressure Measurement

CC - 2452

Calibration Certificate:

Cal.Cert. Number:	***WM18/005***	**WIKA ID No.**	**18/005**
Object :	Weight Box		
Manufacturer:	Mettler Toledo		
Type :	E2 Class		
Serial number :	2011314	ID No. B236291868	
Customer :	Alembic Pharmaceuticals Limited. Formulation Unit-I, Panelav, Nr. Baska, Tal. Halol, Dist. Panchmahal 389 350. Gujarat (India)		
Order No. :	007	-	
OA No. :	SO00021987-1	Date:	-
Number of Pages of the Certificate:	3		
Date of Calibration:	18-Apr-18		

This Calibration Certificate documents the traceability to National/International standards which realise the units of measurements according to the International System of Units (SI)

The user is oblidged to have the object recalibrated at appropriate intervals

This Calibration Certificate may not be reproduced other than in full except the permission of both, the NABL and the issuing laboratory.
Calibration Certificates without signatures and seal are not valid.

The results in this certificate only relate to the object stated

Next Recommended Date for Calibration as per Customer Request- 17-Apr-19

Date	Calibrated by	for Head of the calibration laboratory
18-Apr-18	S. Tapase	V. Patil Manager(QA)

WIKA INSTRUMENTS INDIA PVT. LTD. NABL CC-2452

Plot No. 40, Gat No. 94 + 100,
High Cliff Industrial Estate, Village - Kesnand,
Pune - 412 207 (Maharashtra) CIN No. : U29299MH1997PTC110418
Tel. : 020 - 66293200
Fax : 020 - 66293275 / 350
Email : sales@wika.co.in
Web : www.wika.co.in

WIKA Instruments India Pvt. Ltd.

Calibration Laboratory for Pressure Measurement

CC - 2452

Page 2 of Calibration Certificate No: ***WM18/005***

Specifications of Device Under Calibration :

Range	:	1mg	to	200g
Class	:	E2		

Calibration Conditions :

Ambient Temperature	:	22.6 °C	Humidity	51.6 %Rh
Atmospheric Pressure	:	944.7 mbar		
Soaking Time	:	48 hrs		
Place of Calibration :				

Location: WIKA Instruments India Ltd.,Pune

Reference/Secondary Standard:

Sr.No.	Name	Sr.No.	Range			Class/Res.	Traceability	Valid upto
1	Standard Wt. Set	G1120065	1 mg	to	10 kg	E1	G1-149	10.Jan.21
2	Mass Comparator	11793373A	1 mg	to	520 g	0.00001	Internal	10.Jan.21
3	Mass Comparator	1115443668	1 mg	to	20 g	0.000001	Internal	10.Jan.21

Calibration Procedure : Method as per Proc -sect-02 Ref. Calibration Procedure Manual
(Substitution method as per ABBA cycle according to OIML R-111-1)

Comments :
1. Calibration done only for Scientific Purpose.
2. Density of test weights is assumed materials' density as per chart in OIML R-111-1

Calibration methods:
For calibration following norms are used:

OIML R-111-1	Weights of classes E_1, E_2, F_1,F_2,M_{1-2}, M_2, M_{2-3} Part-1 Metrological and Technical requirements including calibration of weights
OI ML R-111-2	Weights- Report formats

NABL 122-02 - Calibration of Mass(Weights).

Plot No. 40, Gat No. 94 + 100,
High Cliff Industrial Estate, Village - Kesnand,
Pune - 412 207 (Maharashtra) CIN No. : U29299MH1997PTC110418
Tel. : 020 - 66293200
Fax : 020 - 66293275 / 350
Email : sales@wika.co.in
Web : www.wika.co.in

WIKA INSTRUMENTS INDIA PVT. LTD. NABL CC-2452

Page 3 of Calibration Certificate No : *WM18/005*

N-Value/ Sr.Number	Nominal Value	Unit	Conventional Mass	Unit	Density kg/m^3	Tolerance g	Uncertainty mg	Result
1 mg	0.001	g	0.000999	g	8000	0.000006	0.001	O.K.
2 mg	0.002	g	0.002006	g	8000	0.000006	0.001	O.K.
2 mg*	0.002	g	0.002002	g	8000	0.000006	0.001	O.K.
5 mg	0.005	g	0.005002	g	8000	0.000006	0.001	O.K.
10mg	0.010	g	0.009999	g	8000	0.000008	0.001	O.K.
20mg	0.020	g	0.020000	g	8000	0.00001	0.001	O.K.
20 mg*	0.020	g	0.020000	g	8000	0.00001	0.001	O.K.
50 mg	0.050	g	0.050002	g	8000	0.000012	0.001	O.K.
100 mg	0.100	g	0.100007	g	8000	0.000016	0.001	O.K.
200 mg	0.200	g	0.200009	g	8000	0.00002	0.001	O.K.
200 mg *	0.200	g	0.200014	g	8000	0.00002	0.001	O.K.
500 mg	0.500	g	0.500015	g	8000	0.000025	0.002	O.K.
1 g	1	g	0.999998	g	8000	0.00003	0.001	O.K.
2 g	2	g	2.000011	g	8000	0.00004	0.001	O.K.
2 g*	2	g	2.000011	g	8000	0.00004	0.002	O.K.
5g	5	g	5.000045	g	8000	0.00005	0.001	O.K.
10 g	10	g	10.000003	g	8000	0.0001	0.002	O.K.
20 g	20	g	20.000038	g	8000	0.00008	0.003	O.K.
20 g*	20	g	20.000004	g	8000	0.00008	0.004	O.K.
50 g	50	g	50.00000	g	8000	0.0001	0.299	O.K.
100 g	100	g	100.00004	g	8000	0.00016	0.025	O.K.
200 g	200	g	200.00016	g	8000	0.0003	0.030	O.K.
200 g*	200	g	200.00012	g	8000	0.0003	0.036	O.K.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

The calibration object is labeled with a calibration mark, which shows the number of this calibration certificate and the month and the year of the calibration date.

Plot No. 40, Gat No. 94 + 100,
High Cliff Industrial Estate, Village - Kesnand,
Pune - 412 207 (Maharashtra) CIN No. : U29299MH1997PTC110418
Tel. : 020 - 66293200
Fax : 020 - 66293275 / 350
Email : sales@wika.co.in
Web : www.wika.co.in

WIKA INSTRUMENTS INDIA PVT. LTD. NABL CC-2452