

# ELECTROLAB

## Tap Density Tester



**BETATEK** INC.  
*Instrumentation Superbly Supported*  
*L'instrumentation à son meilleur*

654 Petrolia Road,  
Toronto, ON M3J 2W3  
Tel: (416) 736-6166  
Toll-Free: (800) 387 3570  
Fax: (416) 736-9346

# Tap Density Tester



## USP 1 and 2 (EDT-1020)



USP Method 1  
and USP Method 2



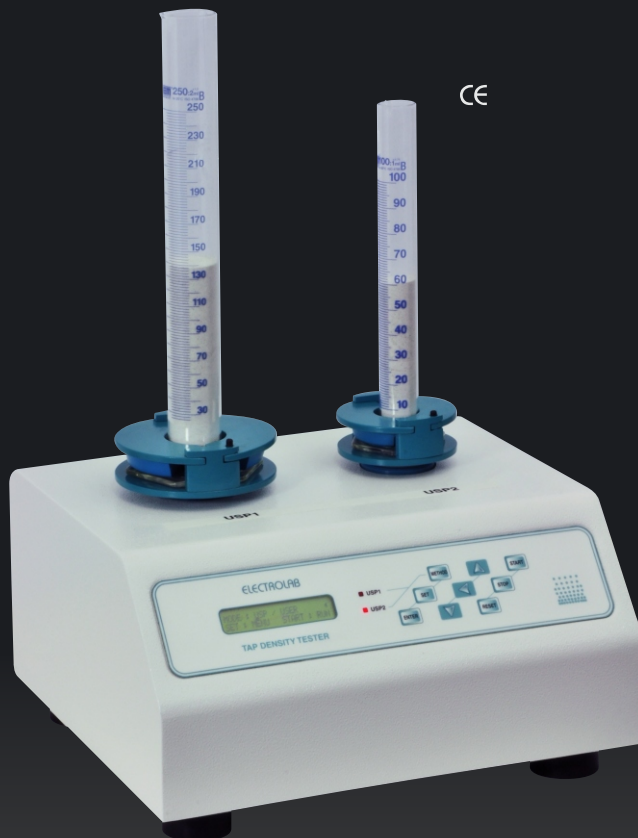
Simultaneous Rotating  
and Tapping Motion



User Friendly  
Operation



LAN (optional)



CE



Snaplock™  
Mechanism



Free Drop of  
the Cylinder



Print



Report

### Key Features

- Supports USP 1 (300 taps per min) and USP 2 (250 taps per min) and ASTM test methods
- Simultaneous rotating and tapping motion assures an evenly packed surface
- Calculation of test results like tapped density, compressibility index and Hausner ratio
- Printer port for documenting test results as per GMP/GLP standards
- LAN connectivity for data transfer to a computer

USP 1 (ETD-10) & USP 2 (ETD-20)  
is also available

TAP DENSITY TEST REPORT	
Model No. : EDT 1020	Date : 24/08/2013
Version : 3.2	Time : 14:58:29
Serial No. : 1310370	Instrument ID : ELECTROLAB
Weighting Scale : Manual Weighing	
Sample Name : .....	
A.S. Number : .....	
Batch Number : .....	
TEST PARAMETERS :	
Method : USP 1	Tap Count 1 : 10
DropRate : 300 +/- 15	Tap Count 2 : 500
Drop Height : 34 mm +/- 2	Tap Count 3 : 1000
TEST READINGS :	
Weight of sample (W)	: 100.00 gm
Initial Volume (V0)	: 100.00 ml
Volume with Tap Count1 (V1)	: 95.0 ml
Volume with Tap Count2 (V2)	: 90.0 ml
Volume with Tap Count3 (V3)	: 85.0 ml
DFT (V2-V0)	: 15.0 ml
Volume with Tap Count4 (V4)	: 80.0 ml
DFT (V3-V0)	: 20.0 ml
TEST READINGS :	
Total no. of Drops	: 2510
Final Volume (Vf)	: 60.0 ml
Tap Density (W/Vf)	: 1.667 gm/ml
Initial Density (W/V0)	: 1.000 gm/ml
Compressibility Index ((Vf-V0)/V0 x 100)	: 40.000%
Hausner Ratio (W/Vf)	: 1.667
Comments : .....	
Analysed by : .....	Checked by : .....
Date : .....	Date : .....

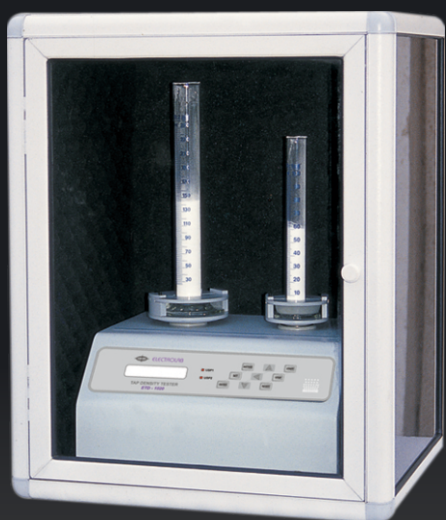
Tap Density Test Report

ELECTROLAB

## Tap Density Tester



### Optional Accessories



CE

Acoustic cabinet

This reduces the sound level to 71 dB to meet laboratory standards



Adapter for 50 ml cylinder



Adapter for 10 ml cylinder

## Bulk Density Tester (EV-02)



CE

Design Patented



Compliance



Spatula removes excess powder

### Key Features

- Complies with USP, Ph. Eur. and ASTM specifications
- Measures the bulk density of fine powders and similar products
- Easy calculation of bulk density in terms of grams per ml
- Useful in calculating powder flow-ability index