

# CERTIFICATE OF ANALYSIS

Material: PROPIN OXIFENIL MANDELATO  
DE DIMETIL AMINO ETANO CLORHIDRATO

Lot No: D-60108  
Code No: 72455  
Lab No: QC-39700

Tested according to: Delmar

| TEST                           | SPECIFICATIONS                                                                                                                                                            | RESULTS     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Description                    | White to creamy white powder                                                                                                                                              | Conforms    |
| Foreign material               | Essentially free of foreign material                                                                                                                                      | Conforms    |
| Solubility                     | Soluble in water, alcohol, chloroform and diluted acids; sparingly soluble in acetone; practically insoluble in toluene, ether, ethyl acetate, hexane and diluted alkalis | Conforms    |
| Identification (IR)            | IR spectrum conforms to that of the reference standard                                                                                                                    | Conforms    |
| Identification (precipitation) | A white precipitate is obtained from sample solution combined with AgNO <sub>3</sub> TS                                                                                   | Conforms    |
| Melting range                  | 167 – 172°C                                                                                                                                                               | 170-171     |
| Water content (KF)             | ≤ 1.0% w/w                                                                                                                                                                | 0.1         |
| Residue on ignition            | ≤ 0.1% w/w                                                                                                                                                                | N. Detected |
| Loss on drying                 | ≤ 1.0% w/w                                                                                                                                                                | N. Detected |
| Sulphate                       | ≤ 100 ppm                                                                                                                                                                 | < 100       |
| Heavy metals                   | ≤ 20 ppm                                                                                                                                                                  | < 20        |
| pH                             | 3.6 – 4.2                                                                                                                                                                 | 3.8         |
| Colour of solution             | Less than analytical method standard (C)                                                                                                                                  | Conforms    |
| Assay (titration)              | 98.0 – 102.0% w/w on dried basis                                                                                                                                          | 100.5       |

Disposition: Meets specifications

Manufacturing date: November 18<sup>th</sup>, 2015

Retest date: November 18<sup>th</sup>, 2020

Date: November 27<sup>th</sup>, 2015

Page 1 of 1

Approved by:   
Lucie Blanchard, B.Sc., Chemist  
Supervisor/Quality Control