



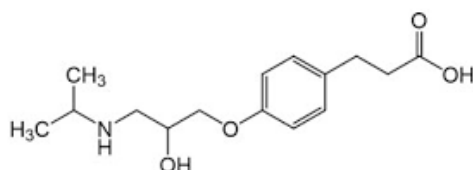
## Certificate of Analysis.

### Esmolol Acid.

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| Product code:     | <b>BS16075.</b>                                                         |
| Description:      | <b>Esmolol Acid.</b>                                                    |
| Synonym:          | <b>3-(4-(2-Hydroxy-3-(isopropylamino)propoxy)phenyl)propanoic acid.</b> |
| Pack:             | <b>100 mg.</b>                                                          |
| CAS NO.:          | <b>81148-15-4.</b>                                                      |
| Mol. Weight:      | <b>281.35 g/mol.</b>                                                    |
| Mol. Formula:     | <b>C<sub>15</sub>H<sub>23</sub>NO<sub>4</sub>.</b>                      |
| MDL Number:       | <b>MFCD08063757.</b>                                                    |
| Melting point:    | <b>202°C.</b>                                                           |
| Boiling Point:    | <b>486.1°C at 760 mmHg.</b>                                             |
| Density:          | <b>1.139 g/cm<sup>3</sup>.</b>                                          |
| Solubility:       | <b>Soluble in DMSO.</b>                                                 |
| Storage:          | <b>Store at 2-8°C Refrigerator.</b>                                     |
| Batch No:         | <b>Sample.</b>                                                          |
| Manufacture Date: | <b>Lot specific.</b>                                                    |
| Expiry Date:      | <b>3 years.</b>                                                         |

| Test                    | Specification              | Measured Values      |
|-------------------------|----------------------------|----------------------|
| Appearance:             | White to Off-White Solid.  | <b>Lot specific.</b> |
| Identification by NMR:  | Confirms to the structure. | <b>Lot specific.</b> |
| Identification by MASS: | Confirms to the structure. | <b>Lot specific.</b> |
| Identification by IR:   | Confirms to the structure. | <b>Lot specific.</b> |
| Purity by HPLC:         | ≥95%.                      | <b>Lot specific.</b> |

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.



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