

## **Certificate of Analysis**

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| Product Name  | : MDL72527  |   |
|---------------|---|---|
| Cat. No.      | : PC-70176  |   |
| CAS No.       | : 93565-01-6  |   |
| Batch No.     | : PC-7017601  |   |
| Chemical Name | : 1,4-Butanediamine, N,N'-di-2,3-butadienyl-, dihydrochloride (9CI) | ) |

## PHYSICAL AND CHEMICAL PROPERTIES

| Molecular Weight   | : | 265.2   |                  |           |
|--------------------|---|---|------------------|-----------|
| Molecular Formula  | : | $C_{12}H_{20}N_2 \cdot {}_2HCI$                       |                  |           |
| Storage            | : | Powder  | -20°C            | 12 Months |
|                    |   |   | 4°C              | 6 Months  |
|                    |   | In solvent  | -80°C            | 6 Months  |
|                    |   |   | -20°C            | 6 Months  |
| Chemical Structure | : | <sup>∞</sup> c <sub>∞</sub> <sub>N</sub> <sub>H</sub> | ∕~c <sub>∾</sub> |           |
|                    |   | 2HCI  |                  |           |

| ANALYTICAL DATA             |   |
|-----------------------------|---|
| Appearance                  | : Solid powder  |
| <sup>1</sup> H NMR Spectrum | : Consistent with   |
| HPLC                        | : Consistent with   |
| NP                          | : Consistent with   |
| Purity (HPLC and/or LCMS)   | : >98%  |
| Conclusion                  | : The product has been tested and complies with the given specifications. |
|                             |   |

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com