## Chem-Impex International, Inc.

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935 Dillon Drive
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825 Dillon Drive
Wood Dale, IL 60191

## Certificate of Analysis

Catalogue Number 46529

Product (S)-(-)-Carvedilol

**Lot Number** 002906-0211

 $\hbox{(-)-1-} (9H\hbox{-}Carbazol\hbox{-}4-yloxy)\hbox{-}3-\hbox{[[2-}(2-methoxyphenoxy)ethyl]}$ 

CAS Number 95094-00-1 Molecular Formula C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight 406.5

AppearanceWhite powderSolubilitySoluble in DMSOOptical Rotation $[a]_D^{20} = -17.2^{\circ}$ 

Infrared Spectrum

Analysis by Mass Spectra

Conforms to structure

Chiral HPLC99.52% (ee)Other Enantiomer0.48%Purity by HPLC99.19%

**Storage** Store at 2 - 8 °C

**Remarks** See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar

**Quality Control Manager**