

## **Certificate of Analysis**

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 Product Name
 : Vinblastine

 Cat. No.
 : PC-45239

 CAS No.
 : 865-21-4

 Batch No.
 : PC-4523901

**Chemical Name** : Dimethyl( $2\beta$ ,  $3\beta$ ,  $4\beta$ ,  $5\alpha$ ,  $12\beta$ ,  $19\alpha$ ) - 15-[(5S, 9S) - 5-ethyl - 5-hydroxy - 9-(methoxycarbonyl) -

 $1,\!4,\!5,\!6,\!7,\!8,\!9,\!10\text{-}octahydro-2H-3,\!7\text{-}methanoazacycloundecino} [5,\!4\text{-}b] indol-9\text{-}yl]-3\text{-}hydroxy-16\text{-}indol-9\text{-}yl]-3\text{-}h$ 

methoxy-1-methyl-6,7-didehydroaspidospermidine-3,4-dicarboxylate

## PHYSICAL AND CHEMICAL PROPERTIES

 $\begin{array}{lll} \mbox{Molecular Weight} & : & 810.9741 \\ \mbox{Molecular Formula} & : & C_{46}\mbox{H}_{58}\mbox{N}_4\mbox{O}_9 \\ \end{array}$ 

**Storage** : Powder -20°C 12 Months

4°C 6 Months

In solvent -80°C 6 Months

-20°C 1 Month

Chemical Structure :

## **ANALYTICAL DATA**

Appearance: Solid powder¹H NMR Spectrum: Consistent withHPLC: Consistent withNP: 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!

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