

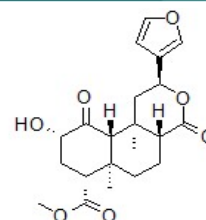
# Certificate of Analysis



## Product Identification

**Catalog number** HB4887  
**Compound name** Salvinorin B  
**Chemical name** (2S,4aR,6aR,7R,9S,10aS,10bR)-2-(3-Furanyl)dodecahydro-9-hydroxy-6a,10b-dimethyl-4,10-dioxo-2H-naphtho[2,1-c]pyran-7-carboxylic acid methyl ester  
**Batch number** E0481-4-2  
**Batch molecular formula** C<sub>21</sub>H<sub>26</sub>O<sub>7</sub>  
**Batch molecular weight** 390.40

## Chemical Structure



| Method                     | QC requirement  | QC Result                                 |
|----------------------------|---|---|
| <b>HPLC</b>                | HPLC shows more than 98% purity by RP analysis  | Meets specification: 98.4% by HPLC        |
| <b>NMR</b>                 | 300MHz <sup>1</sup> H spectrum in DMSO confirms structure and shows <1% of any other impurity   | Meets specification                       |
| <b>Mass spectrum</b>       | Electrospray positive analysis consistent with structure  | Meets specification                       |
| <b>TLC</b>                 | Analysis using a solvent ratio of 1:1 EtOAc / hexane + 1% Et <sub>3</sub> N shows a single spot | Meets specification: R <sub>f</sub> =0.20 |
| <b>Physical appearance</b> | White to cream solid  | Meets specification: cream Solid          |
| <b>Solubility</b>          | Soluble in DMSO to 20 mM  | Meets specification                       |

## Biological validation

**Produced by** Huw Davies

**Signature**

**Passed by** Steve Roome

**Signature**

**Date**

10-10-16

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.