

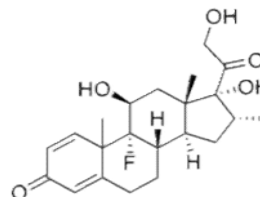
# Certificate of Analysis



## Product Identification

**Catalog number** HB2521  
**Compound name** Dexamethasone  
**Chemical name** (11 $\beta$ ,16 $\alpha$ )-9-Fluoro-11,17,21-trihydroxy-16-methyl-pregna-1,4-diene-3,20-dione  
**Batch number** E0479-1-1  
**Batch molecular formula** C<sub>22</sub>H<sub>29</sub>FO<sub>5</sub>  
**Batch molecular weight** 392.47

## Chemical Structure



## Method

## QC requirement

## QC Result

<b>HPLC</b>	HPLC shows more than 98% purity by RP analysis	Meets specification: >99% by HPLC
<b>NMR</b>	400MHz <sup>1</sup> H spectrum in DMSO confirms structure and shows <1% of any other impurity	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4 of expected result for each element tested	Meets specification: analysis fits for batch molecular formula
<b>Physical appearance</b>	White to off-white solid	Meets specification: White Solid
<b>Solubility</b>	Soluble in DMSO to 100 mM	Meets specification

## Biological validation

**Produced by** Huw Davies

**Signature**

**Passed by** Steve Roome

**Signature**

**Date**

09-08-16

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