

# Certificate of Analysis

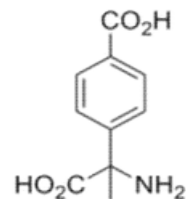


## Product Identification

Catalog number HB0037  
Compound name RS-MCPG  
Chemical name (RS)- $\alpha$ -Methyl-4-carboxyphenylglycine

Batch number E0587-1-4  
Batch molecular formula  $C_{10}H_{11}NO_4$   
Batch molecular weight 209.20

## Chemical Structure



## Method

## QC requirement

## QC Result

|                            |  |  |
|----------------------------|--|--|
| <b>HPLC</b>                | Chiral HPLC shows >98% as two isomers  | Meets specification: 100%                |
| <b>NMR</b>                 | <sup>1</sup> H NMR in NaOD/D <sub>2</sub> O at 400 MHz consistent with structure and shows <1% of any impurity | Meets specification                      |
| <b>Mass spectrum</b>       | Electrospray negative analysis consistent with structure   | Meets specification                      |
| <b>Microanalysis</b>       | Elemental analysis is within 0.4% for the batch molecular formula  | Meets specification                      |
| <b>TLC</b>                 | TLC analysis in 1:1 PAW/BuOH shows one spot under ninhydrin  | Meets specification: R <sub>f</sub> =0.4 |
| <b>Physical appearance</b> | White to off-white solid   | Meets specification: White solid         |
| <b>Solubility</b>          | Soluble in 0.1M NaOH (100 mM)  | Meets specification                      |

## Biological validation

Produced by Richard Patterson

Signature

Passed by Huw Davies

Signature

Date

25-04-17

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