

Apollo Scientific Ltd  
Whitefield Road, Bredbury,  
Stockport, SK6 2QR, UK.  
Tel:44(0)161 406 0505 Fax:44(0)161 406 0506  
e-mail: QCDept@apolloscientific.co.uk



## **-CERTIFICATE OF ANALYSIS-**

Product: Boc-L-Pyroglutamic acid Benzyl ester

Code Number: OR471630

CAS Number: 113400-36-5

Formula: C<sub>17</sub>H<sub>21</sub>NO<sub>5</sub>

Batch Number: AS479784

Appearance: Beige powder

Purity by HPLC: 99.6% (214nm)

Optical Rotation: -36.0 deg (c=1 in CHCl<sub>3</sub>)

Identity: <sup>1</sup>H-NMR conforms to structure

Verified by: David Parton

Signed: --Digital document, no signature required--