

## Analytical Data Sheet

Lot number **1061747**  
not for drug use

Catalog number **B-4360.0001**  
Product number **4084334.0001**  
Product **Fmoc-  $\alpha$ - Me- Phe- OH**  
Molecular formula  $C_{25}H_{23}NO_4$   
Relative molecular mass 401.46

| Tests                                      | Results  |
|--|--|
| Appearance                                 | white powder   |
| Appearance of solution                     | clear, colorless solution (50 mg/mL in dioxane)<br>clear, colorless solution (0.5 mmol/mL in DMF)  |
| Identification (ESI-MS)                    | m = 401.4u (average mass)  |
| Identification (TLC)                       | complies with authentic material   |
| Purity (HPLC)                              | 99.9% (TFA)  |
| Related impurities (HPLC)                  | < 0.1% Fmoc- $\beta$ -Ala-OH   |
| Purity (TLC)                               | > 99%  |
| TLC conditions                             | chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1<br>chloroform/methanol/acetic acid 90/8/2<br>toluene/dioxane/acetic acid 95/25/4<br>plate: silicagel 60 F <sub>254</sub><br>detected by: UV, ninhydrin, TMB |
| Enantiomer content (chiral chromatography) | < 0.1% D-Enantiomer  |
| Assay (titration)                          | 93.5% (TBAH)   |
| Acetic acid content (IC)                   | 0.006%   |

Latest update: September 22, 2015

**Analytical Data Sheet**  
Lot number **1061747**