

Reanal Private Ltd.

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Tel: +36 (1) 467 7519 Fax: +36 (1) 252-1483 E-mail: QC@reanal.huProduct: **N- α -t-Boc-L-asparagine 4-nitrophenyl ester**Quality: **for synthesis**Product number: **22870**ID Number: **2060**CAS-No: **4587-33-1**

| TEST | REQUIREMENT |
|--|---------------------------|
| Appearance | white to off-white powder |
| Identity (IR) | passes test |
| Assay (N) | 97.0-103.0% |
| Melting range | 140.0-155.0 °C |
| $[\alpha]_D^{20}$ (c=1; DMF) | -34.0° ~ -38.0° |
| Residue on ignition (SO ₄) | max. 0.2% |
| Water (KF) | max. 1.0% |
| Chromatographic purity (HPLC) | min. 98.0% |
| Boc-Asn-OH (HPLC) | max. 0.1 area% |
| D-enantiomer | max. 0.3% |
| Other amino acids | max. 0.2% (n/n) |
| Potential residual solvents | to be reported |

Date (d/m/y): 14/05/2010

ÜRGE Károly
QC manager