

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

|                          |                                             |
|--------------------------|---------------------------------------------|
| Product Name:            | <b>Boc-D-pyroglutamic acid methyl ester</b> |
| Specifications & Purity: | 98%                                         |
| SKU #                    | <b>R190465</b>                              |

| Parameter                                                      | Limit Values                           |
|----------------------------------------------------------------|----------------------------------------|
| Specific Rotation $[\alpha]_{20/D}(c=1.039 \text{ in CHCL}_3)$ | 29.5-33.5 (°)                          |
| Purity(HPLC)                                                   | 98-100 (%)                             |
| Melting point                                                  | 67-72 (°C)                             |
| Appearance (R190465)                                           | White to Off-White to Faint Red Powder |
| Proton NMR spectrum                                            | Conforms to Structure                  |