

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

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|--------------------------|--|
| Date of Testing: | 2023-03-21 06:43:36 |
| Date of Next Testing: | 2027-03-20 06:43:36 |
| Product Name: | N-p-Tosyl-L-phenylalanine chloromethyl ketone |
| CAS Number: | 402-71-1 |
| Specifications & Purity: | 97% |
| Lot #: | C23161168 |
| SKU # | T123226 |
| Analysis: | 193166 |
| Storage Temperature: | Store at -20°C |

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| Nitrogen by Elemental Analysis | 3.6-4.1 (%) | 3.80 % |
| Melting point | 106-110 (°C) | 108.07000 °C |
| Carbon by Elemental Analysis | 56.6-59.5 (%) | 57.30 % |
| Purity(HPLC) | 97-100 (%) | 99.83200 % |
| Purity (Argentmetric Titration) | 96.5-103.5 (%) | 99.87 % |
| Specific Rotation [α] ₂₀ /D(c=1 in EtOH) | -91--87 (°) | -87.01 ° |
| Appearance (T123226) | white powder | White powder |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Test for inhibitor of chymotrypsin | pass | Pass |



John Su
QA & QC Manager