

## Analytical Data Sheet

Lot number **1068244**  
not for drug use

Catalog number **A-4355.0001**  
Product number **4030208.0001**  
Product **Boc- Thionophe- 1- (6- nitro) benzotriazolide**  
Molecular formula **C<sub>20</sub>H<sub>21</sub>N<sub>5</sub>O<sub>4</sub>S**  
Relative molecular mass **427.48**

Tests	Results
Appearance	orange powder
Appearance of solution	clear, orange solution (50 mg/mL in chloroform)
Identification (ESI-MS)	m = 427.0u
Identification (TLC)	complies with authentic material
Melting point	124 °C
Specific optical rotation	$[\alpha]_D^{24} = +220.1^\circ$ (1% in chloroform)
Purity (TLC)	≥ 90%
TLC conditions	chloroform/ethylacetate 9/1 chloroform/methanol/acetic acid 90/8/2 ethylacetate/hexane 2/8 plate: silicagel 60 F <sub>254</sub>
Assay (elemental analysis)	94.7% (Nth 16.38%, Nfd 15.51%)
Water content (KF volumetric)	0.5%
Residual organic solvents (GC)	ethylacetate 0.3% diisopropylether 0.4%

Latest update: October 13, 2016

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