

Analytical Data Sheet

Lot number **1000018270**
not for drug use

Catalog number **L-1242.0250**
Product number **4009170.0250**
Product **Z- Phe- Arg- pNA · HCl**
Molecular formula **C₂₉H₃₃N₇O₆ · HCl**
Relative molecular mass **612.09**

Tests	Results								
Appearance	white powder with a hint of yellow								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH 90 %)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 56.66 %</td> <td>C = 56.59 %</td> </tr> <tr> <td>H = 5.62 %</td> <td>H = 5.63 %</td> </tr> <tr> <td>N = 15.95 %</td> <td>N = 15.93 %</td> </tr> </tbody> </table> <p>calc. as 1 HCl (5.9 %) x 0.19 H₂O (0.56 %)</p>	Theory	Found	C = 56.66 %	C = 56.59 %	H = 5.62 %	H = 5.63 %	N = 15.95 %	N = 15.93 %
Theory	Found								
C = 56.66 %	C = 56.59 %								
H = 5.62 %	H = 5.63 %								
N = 15.95 %	N = 15.93 %								
Identification (TLC)	complies with authentic material								
Melting point	140 °C								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% pNA								
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid(98-100%)/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	99.7% (Nth 15.95 %, Nfd 15.91 %)								
Water content (KF coulometric)	0.6%								
Chloride content (titration)	5.1% (AgNO ₃)								

Latest update: July 09, 2019

Analytical Data Sheet
Lot number **1000018270**