

Analytical Data Sheet

Lot number **1000007227**
not for drug use

Catalog number **E-1370.0025**
Product number **4002570.0025**
Product **H- Arg- OEt · 2 HCl**
Molecular formula **C₈H₁₈N₄O₂ · 2 HCl**
Relative molecular mass **275.18**

| Tests | Results | | | | | | | | |
|-------------------------------------|--|--------|-------|-----------|-----------|----------|----------|-----------|-----------|
| Appearance | white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/mL in ethanol) | | | | | | | | |
| Identification (elemental analysis) | <table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 34.9%</td> <td>C = 34.8%</td> </tr> <tr> <td>H = 7.3%</td> <td>H = 7.3%</td> </tr> <tr> <td>N = 20.4%</td> <td>N = 20.3%</td> </tr> </tbody> </table> | Theory | Found | C = 34.9% | C = 34.8% | H = 7.3% | H = 7.3% | N = 20.4% | N = 20.3% |
| Theory | Found | | | | | | | | |
| C = 34.9% | C = 34.8% | | | | | | | | |
| H = 7.3% | H = 7.3% | | | | | | | | |
| N = 20.4% | N = 20.3% | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = +12.2^\circ$ (2% in water) | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine | | | | | | | | |
| Assay (elemental analysis) | 99.5% (Nth 20.36% Nfd 20.26%) | | | | | | | | |
| Chloride content (titration) | 25.7% | | | | | | | | |

Latest update: November 05, 2018

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