

Analytical Data Sheet

Lot number **1000020838**
not for drug use

Catalog number **C-3710.0001**
Product number **4018965.0001**
Product **Z- Arg(Boc)₂- OH · CHA**
Molecular formula **C₂₄H₃₆N₄O₈ · C₆H₁₃N**
Relative molecular mass **607.75**

| Tests | Results | | | | | | | | |
|-------------------------------------|---|--------|-------|-------------|-------------|------------|------------|-------------|-------------|
| Appearance | white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/ml in methanol) | | | | | | | | |
| Identification (elemental analysis) | <table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 58.25 %</td><td>C = 58.41 %</td></tr><tr><td>H = 8.18 %</td><td>H = 8.07 %</td></tr><tr><td>N = 11.32 %</td><td>N = 11.29 %</td></tr></tbody></table> <p>Calc. as 0.6 H₂O (1.8 %)</p> | Theory | Found | C = 58.25 % | C = 58.41 % | H = 8.18 % | H = 8.07 % | N = 11.32 % | N = 11.29 % |
| Theory | Found | | | | | | | | |
| C = 58.25 % | C = 58.41 % | | | | | | | | |
| H = 8.18 % | H = 8.07 % | | | | | | | | |
| N = 11.32 % | N = 11.29 % | | | | | | | | |
| Identification (TLC) | Complies with authentic material | | | | | | | | |
| Melting point | 118 °C | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = +9.0^\circ$ (1 % in methanol) | | | | | | | | |
| Purity (TLC) | > 97% | | | | | | | | |
| TLC conditions | Chloroform/methanol/acetic acid 85/10/5 Chloroform/methanol/acetic acid(98-100%)/H ₂ O 45/13/1/2 Benzene/dioxane/acetic acid 95/25/4 Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine | | | | | | | | |
| Water content (KF volumetric) | 1.7% | | | | | | | | |

Latest update: August 23, 2019

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