

Analytical Data Sheet

Lot number **1053850**
not for drug use

Catalog number **G-4525.0025**
Product number **4027473.0025**
Product **H- Glu- Arg- OH acetate salt**
Molecular formula $C_{11}H_{21}N_5O_5$
Relative molecular mass 303.32

| Tests | Results | | | | | | | | |
|-------------------------------------|---|--------|-------|-------------|-------------|------------|------------|-------------|-------------|
| Appearance | white product (no visible impurities) | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/ml in methanol 50 %) | | | | | | | | |
| Identification (FAB-MS) | $[M + H]^+ : m/z = 304 \text{ u}$ | | | | | | | | |
| Identification (elemental analysis) | <table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.84 %</td> <td>C = 40.88 %</td> </tr> <tr> <td>H = 7.21 %</td> <td>H = 7.13 %</td> </tr> <tr> <td>N = 20.53 %</td> <td>N = 20.48 %</td> </tr> </tbody> </table> <p>calc. as x 0.3 AcOH (5.3%) x 1.1 H₂O (5.8%)</p> | Theory | Found | C = 40.84 % | C = 40.88 % | H = 7.21 % | H = 7.13 % | N = 20.53 % | N = 20.48 % |
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| H = 7.21 % | H = 7.13 % | | | | | | | | |
| N = 20.53 % | N = 20.48 % | | | | | | | | |
| Melting point | 124 °C | | | | | | | | |
| Purity (TLC) | 98% | | | | | | | | |
| Related impurities (TLC) | < 0.5% Boc-Glu(OtBu)Arg-OH | | | | | | | | |
| TLC conditions | n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: ninhydrin, chlorine-tolidine | | | | | | | | |
| Water content (KF volumetric) | 6.0% | | | | | | | | |
| Acetic acid content (HPLC) | 5.7% | | | | | | | | |