

Analytical Data Sheet

Lot number

1023375

not for drug use

| | |
|--------------------------------|---|
| Catalog Number | L-1610.0050 |
| Product number | 4013931.0050 |
| Product | H- Ala- Phe- pNA · HCl |
| Molecular formula | C ₁₈ H ₂₀ N ₄ O ₄ · HCl |
| Relative molecular mass | 392.84 |

| Tests | Results | | | | | | | | |
|--|--|--------|-------|-------------|-------------|------------|------------|-------------|-------------|
| Appearance | off-white crystals | | | | | | | | |
| Appearance of solution | clear, slightly yellow solution (50 mg/ml in MeOH) | | | | | | | | |
| Identification (elemental analysis) | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 55.03 %</td> <td>C = 54.89 %</td> </tr> <tr> <td>H = 5.39 %</td> <td>H = 5.55 %</td> </tr> <tr> <td>N = 14.26 %</td> <td>N = 14.18 %</td> </tr> </table> | Theory | Found | C = 55.03 % | C = 54.89 % | H = 5.39 % | H = 5.55 % | N = 14.26 % | N = 14.18 % |
| Theory | Found | | | | | | | | |
| C = 55.03 % | C = 54.89 % | | | | | | | | |
| H = 5.39 % | H = 5.55 % | | | | | | | | |
| N = 14.26 % | N = 14.18 % | | | | | | | | |
| Identification (TLC) | conforms with authentic material | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| Related impurities (TLC) | < 0.1% pNA | | | | | | | | |
| TLC conditions | ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/acetic acid(98-100%)/H ₂ O 45/13/1/2 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine | | | | | | | | |
| Assay (elemental analysis) | 99.4% (Nth 14.26 %, Nfd 14.18 %) | | | | | | | | |
| Water content (KF volumetric) | 0.7% | | | | | | | | |
| Chloride content (titration) | 8.9% (AgNO ₃) | | | | | | | | |
| Latest update: April 14, 2009 | | | | | | | | | |