



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-484790
Lot Number: SAMPLE
Product Name: Methotrexate heptaglutamate
CAS Number: 59-05-2
Molecular Formula: $C_{50}H_{64}N_{14}O_{23}$
Molecular Weight: 1229.14

| Test | Specification | Result |
|------------------------------------|--------------------|---|
| Appearance | | Yellow to orange solid |
| Identification (1H -NMR) | | Consistent with structure |
| Identification (^{19}F -NMR) | | Consistent with structure |
| Identification (Mass Spectrometry) | | Consistent with structure |
| Purity (TLC) | | 98% |
| Atmosphere | | Inert gas |
| Melting Point | | > 127 °C |
| Solubility | | DMSO (Very Slightly), Water (Very Slightly) |
| Carbon | 44.51% (for x = 2) | 44.08% |
| Hydrogen | 4.57% (for x = 2) | 5.11% |
| Nitrogen | 13.46% (for x = 2) | 13.71% |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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