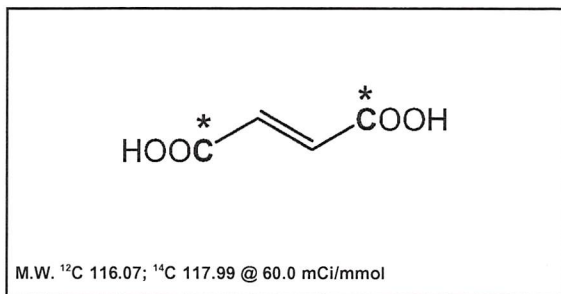


Certificate of Analysis

MC-2509

Fumaric acid, [1,4-¹⁴C]-



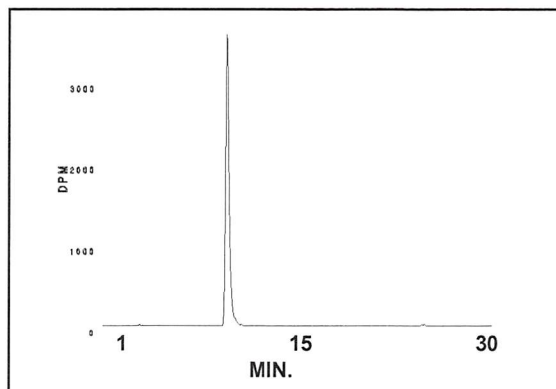
Lot #: 374-049-060-A-20110919-JK

Specific Activity: 60.0 mCi/mmol

Packaged as: Solid

Date of Analysis: October 31, 2018

Radiochemical Purity: 99.7%



| Peak # | Area % | Time | Area |
|--------|--------|----------|------------|
| 1 | 99.74 | 9.61470 | 6776.09492 |
| 2 | 0.02 | 10.19730 | 1.50306 |
| 3 | 0.15 | 10.28000 | 9.93171 |
| 4 | 0.05 | 10.39870 | 3.52991 |
| 5 | 0.04 | 10.52000 | 2.74640 |
| Totals | 100.00 | | 6793.80600 |

Storage Recommendation: Store at -20°C.

Caution: Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.