

论文

15-<sup>14</sup>C标记青蒿素的合成

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摘要:

关键词: 标记青蒿素 生物合成 黄花蒿叶

SYNTHESIS OF[ 15-<sup>14</sup>C]LABESED ARTEMISININ

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Abstract:

15-<sup>14</sup>C]Artemisinin(8) was prepared by the biosynthesis of[15-<sup>14</sup>C]dihydroartemisis acid(14) which was synthesized from diketone in 6 steps. A supernatant liquidprepared from the tender leaves of ripe Shanghai Qinghao(*Artemisia annua* L.)was incubated with themixture of compounds I3 and I4(100 mg, total activity 3. 26 MBq, 13:14=1:1) at 30°C or 37°C for 4 hr. After the addition of natural artemisinin(100 mg) ,the mixture was heated at 100°Cfor5min , and extracted with chloroform(method A)or petroleum ether(bp. 60~90°C, method B).Theextract was evaporated and the residue was recrystallized(method B) or purified py preparative thinlayer chromatography(methed The crude product was recrystallized from methylene chloride—Petroleum ether to yield 8 with constant specific radioactivity. The mean rate of incorporation in runs1~8was 1.17%. The possible influence factors of the biotransformation were studied. The incuhation temperaturewas considered as a key factor.

Keywords: Biosynthesis Leaves of *Artemisia annua* Labeled artemisinin

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