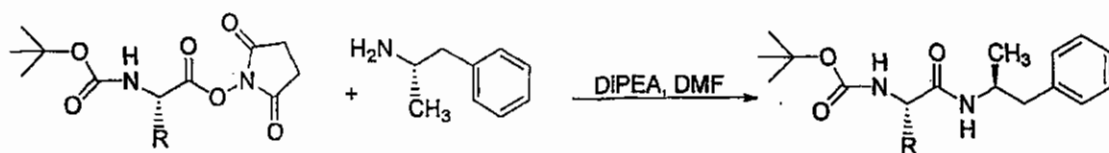
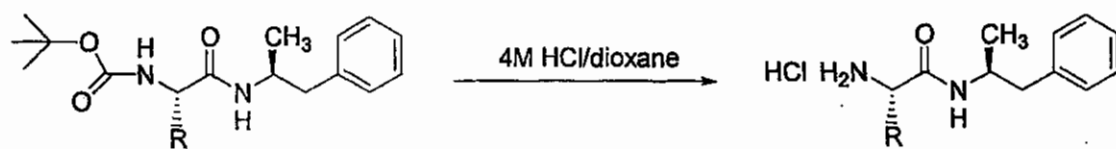


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Figure 1



Step 1: Coupling



Step 2: Deprotection

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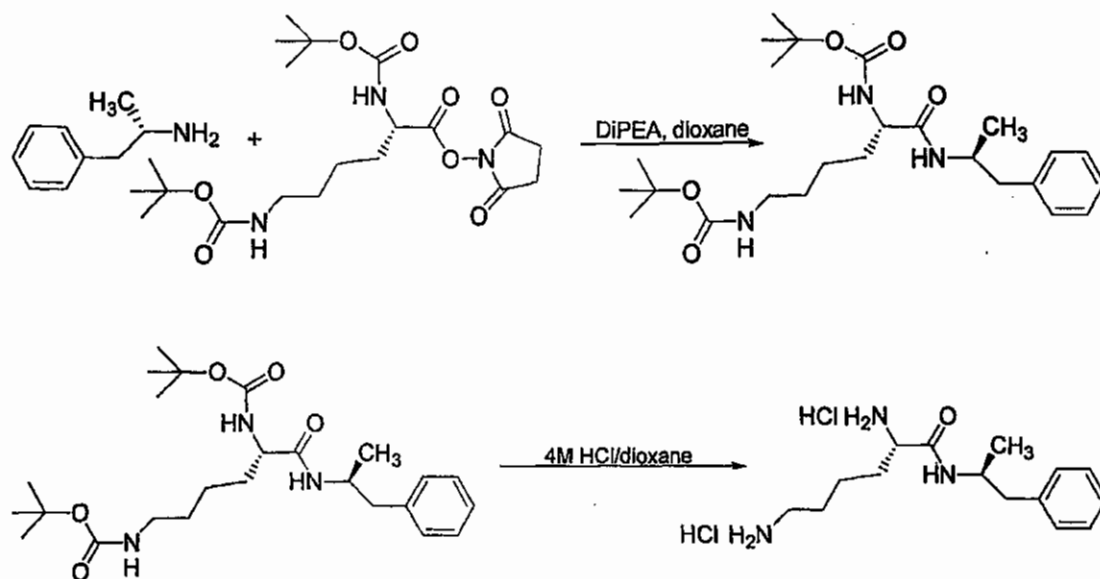


Figure 2

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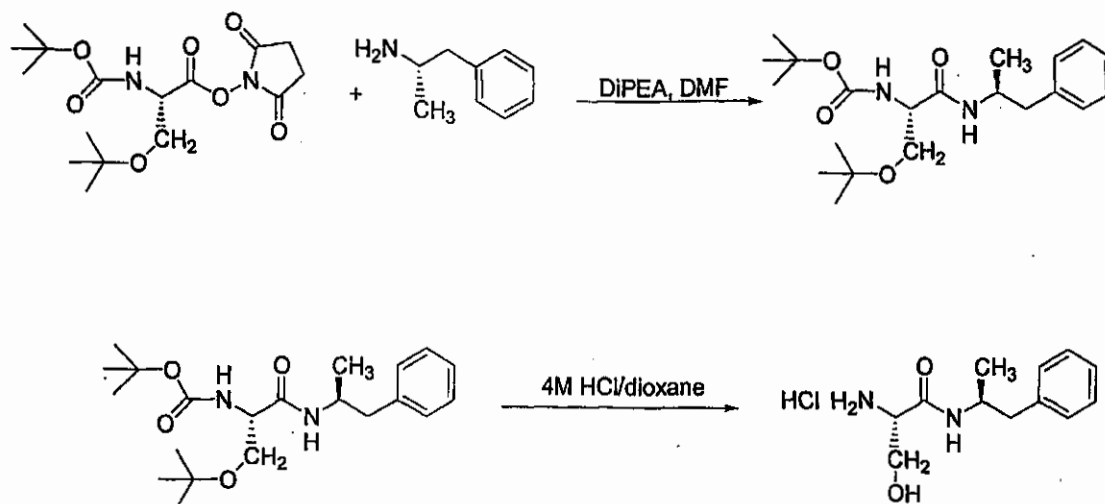


Figure 3

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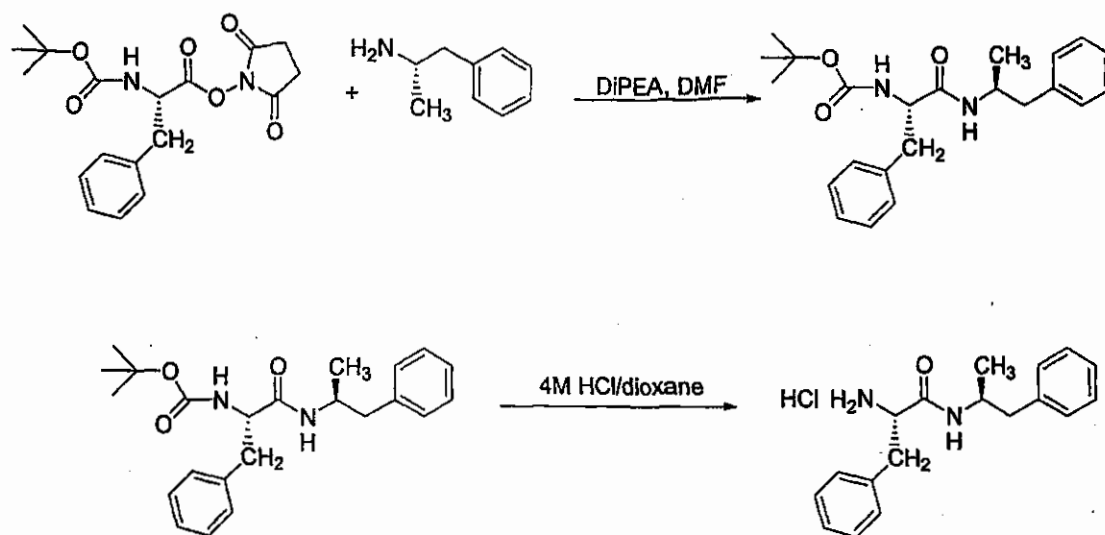


Figure 4

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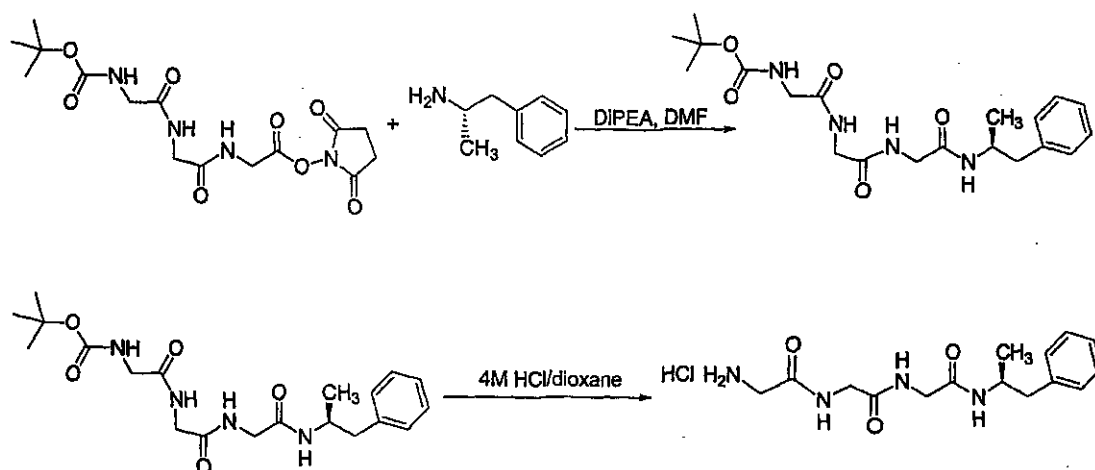


Figure 5

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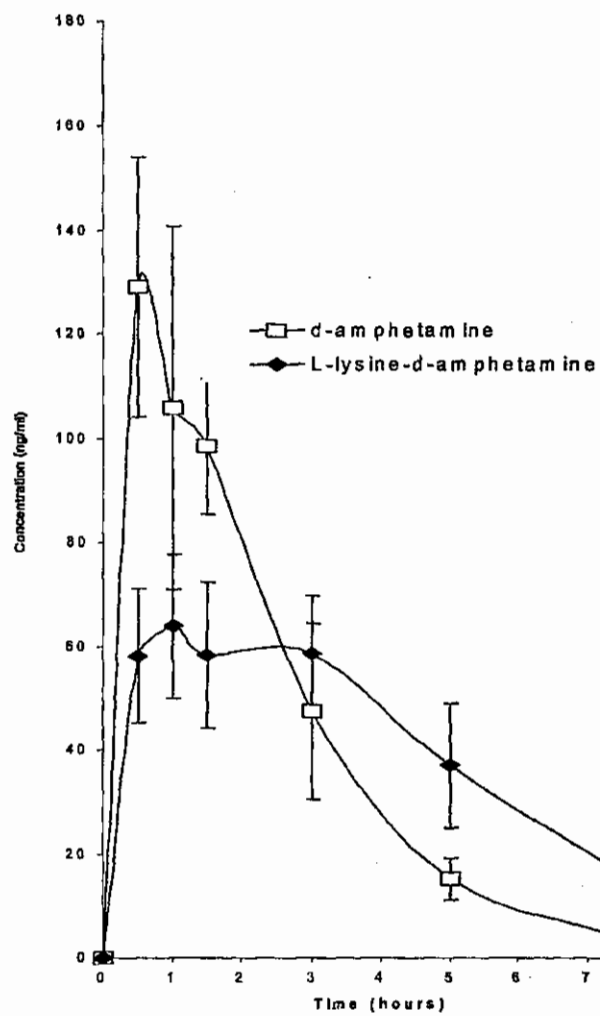


Figure 6

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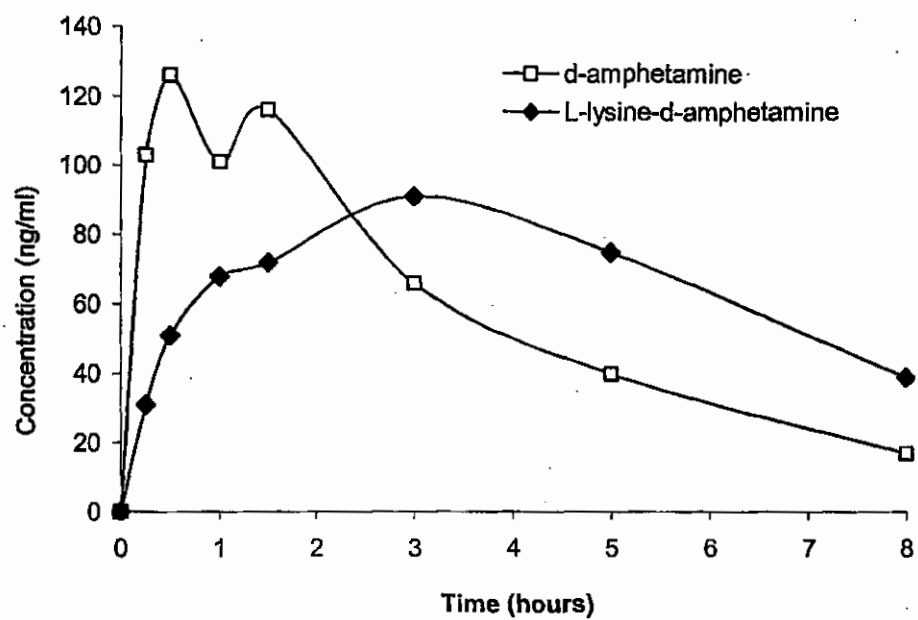


Figure 7

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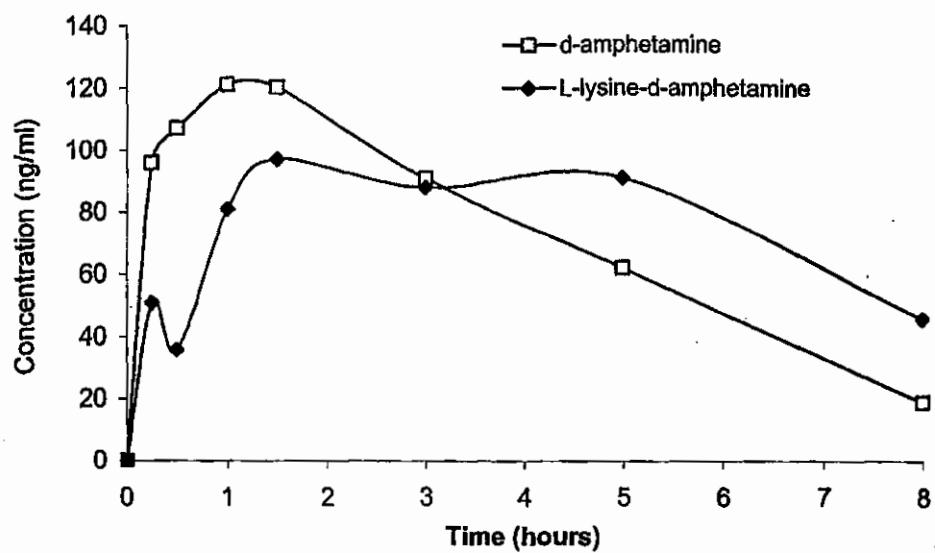


Figure 8

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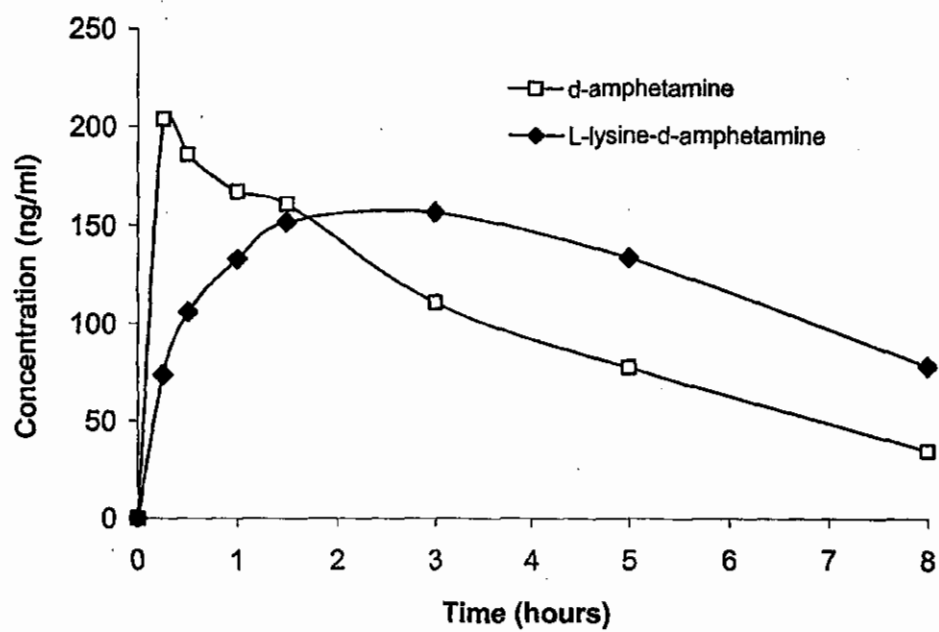


Figure 9

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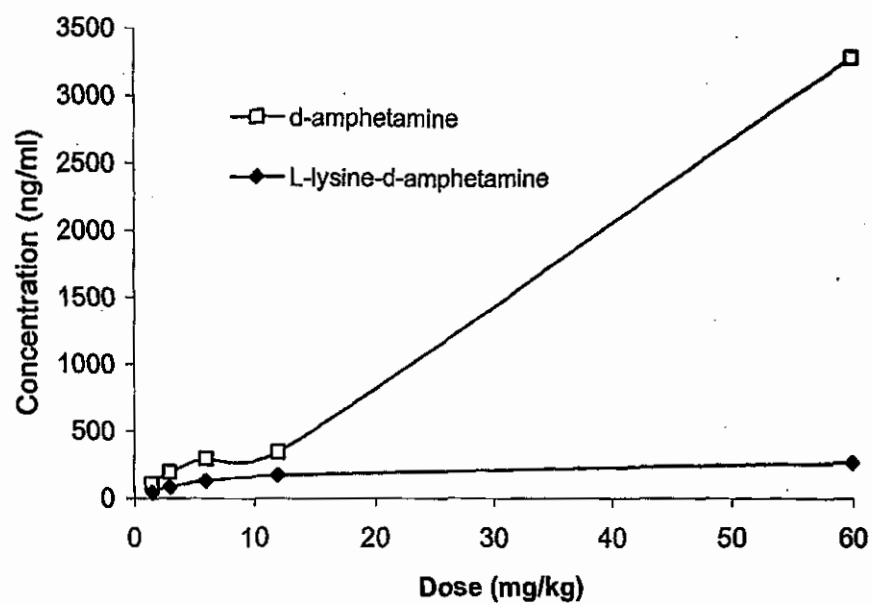


Figure 10

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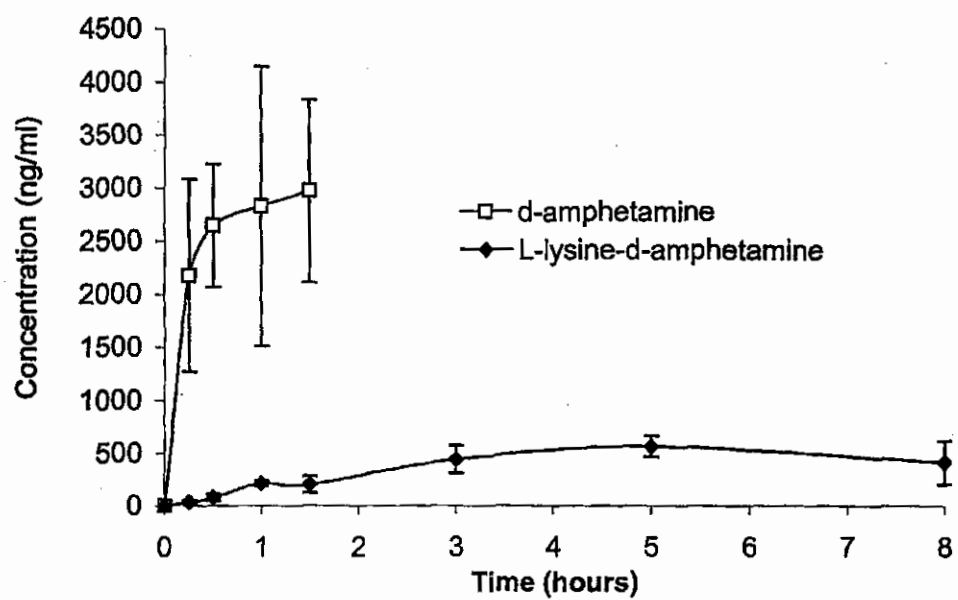


Figure 11

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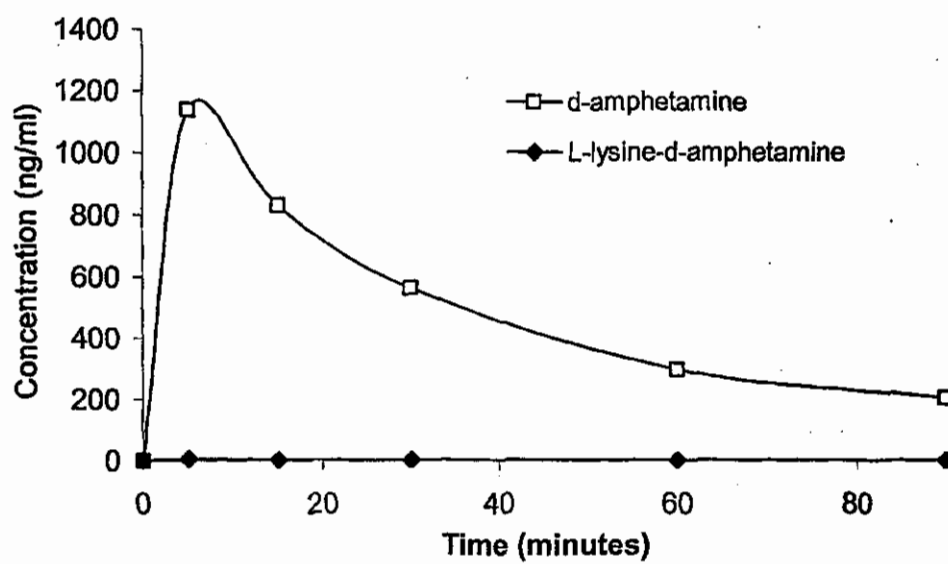


Figure 12

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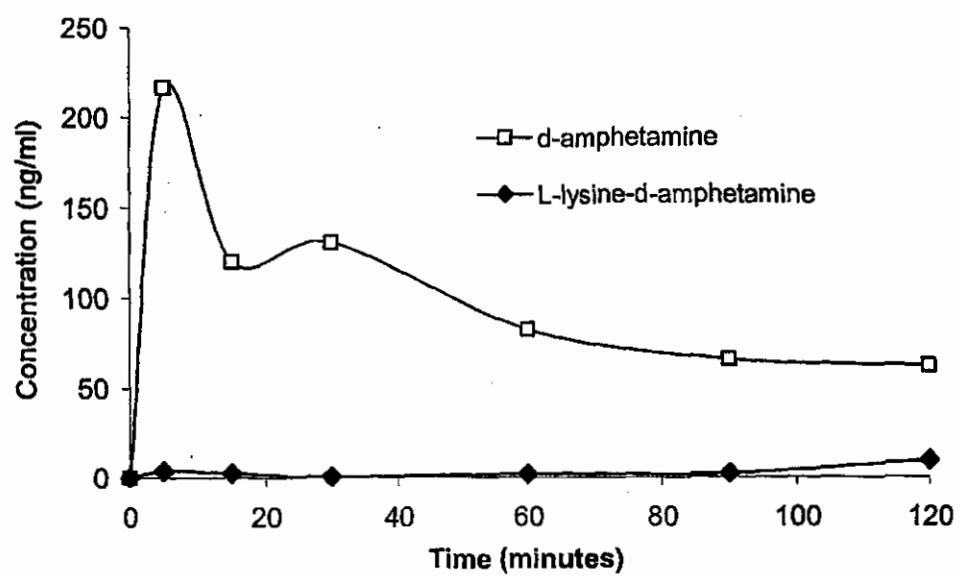


Figure 13

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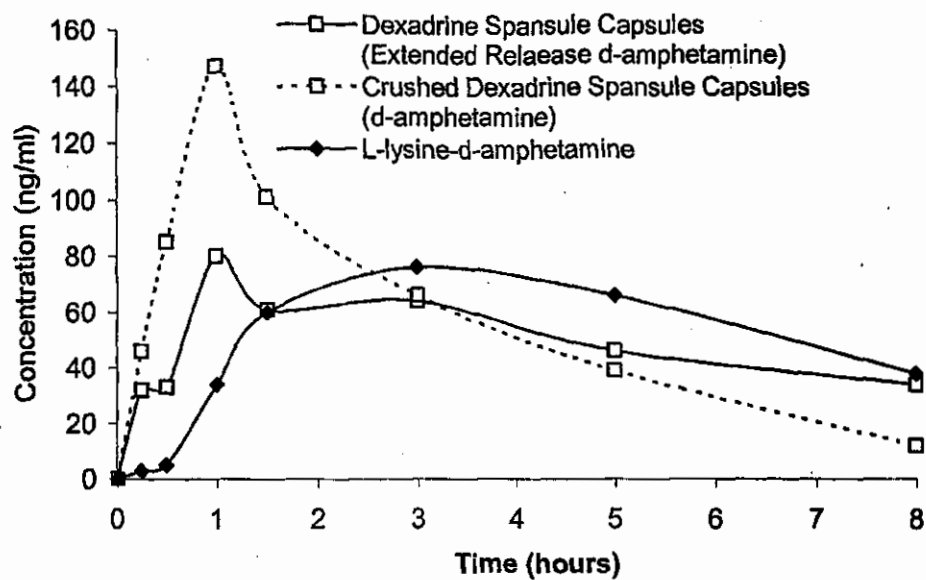


Figure 14

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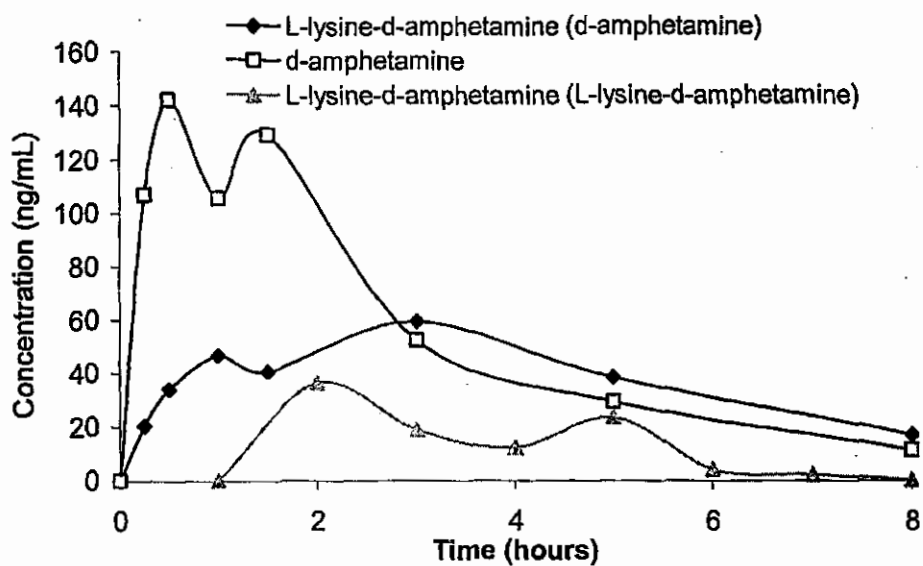


Figure 15A

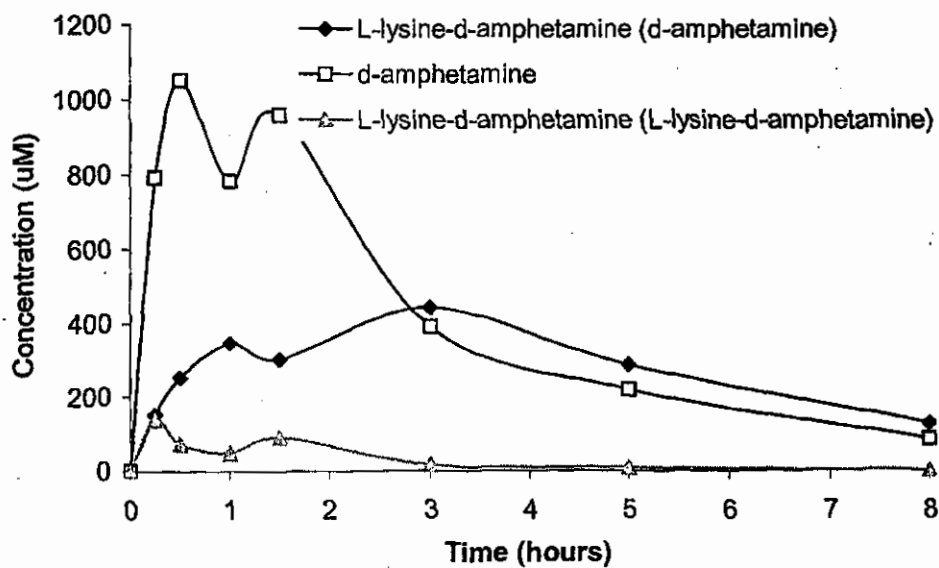


Figure 15B

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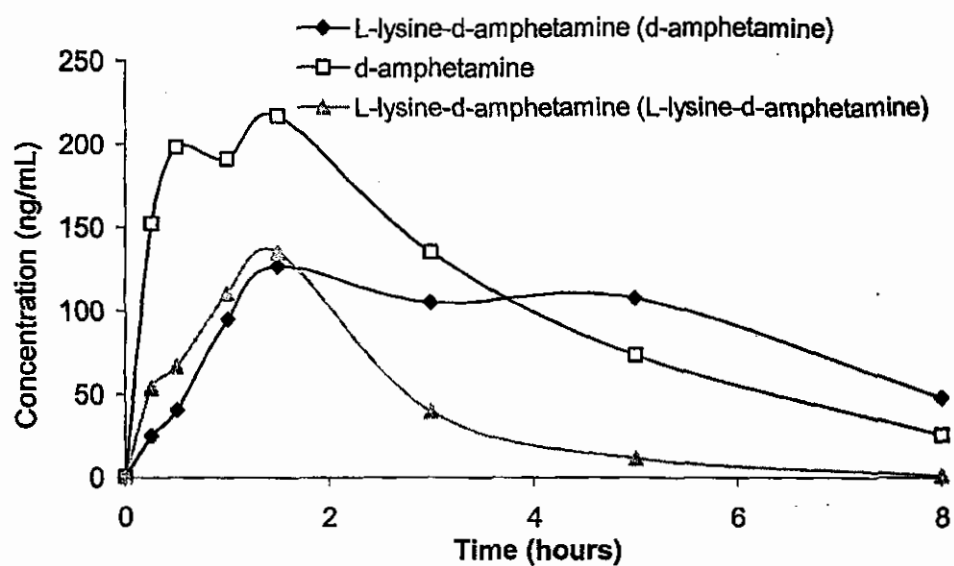


Figure 16A

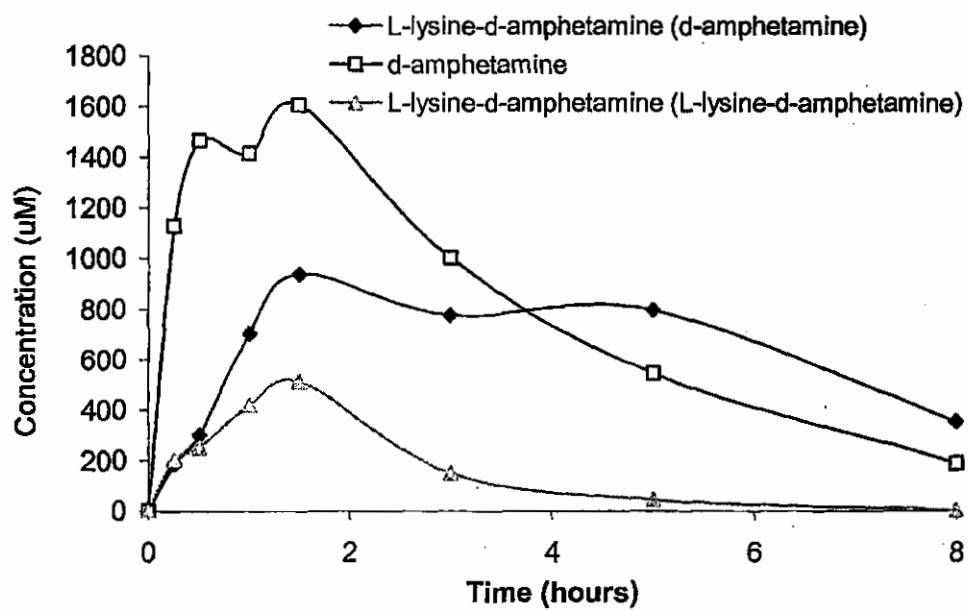


Figure 16B

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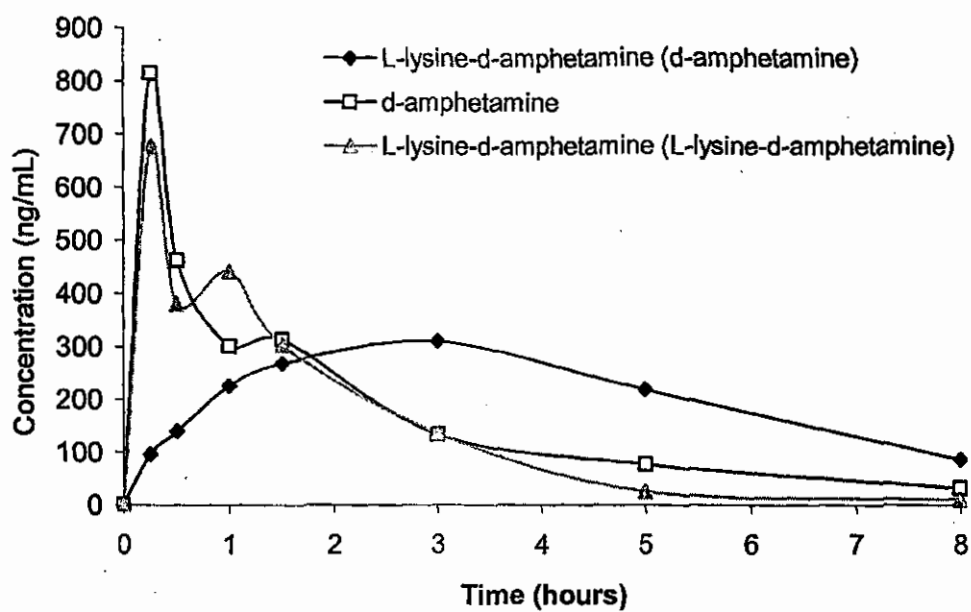


Figure 17A

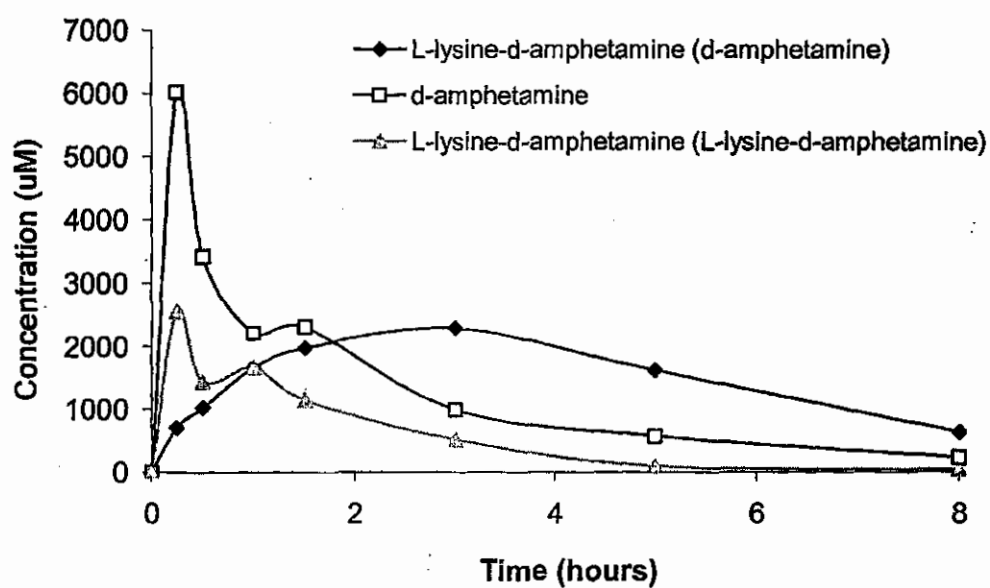


Figure 17B

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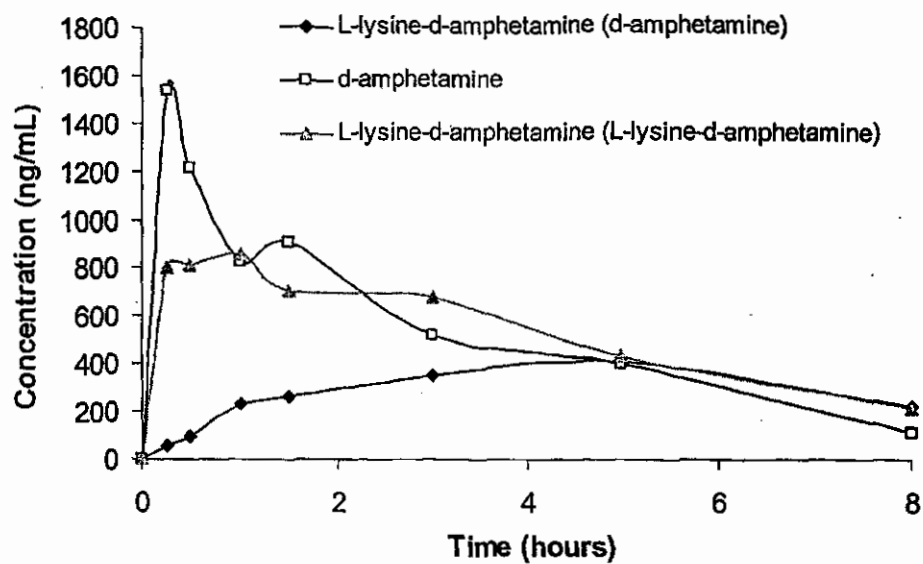


Figure 18A

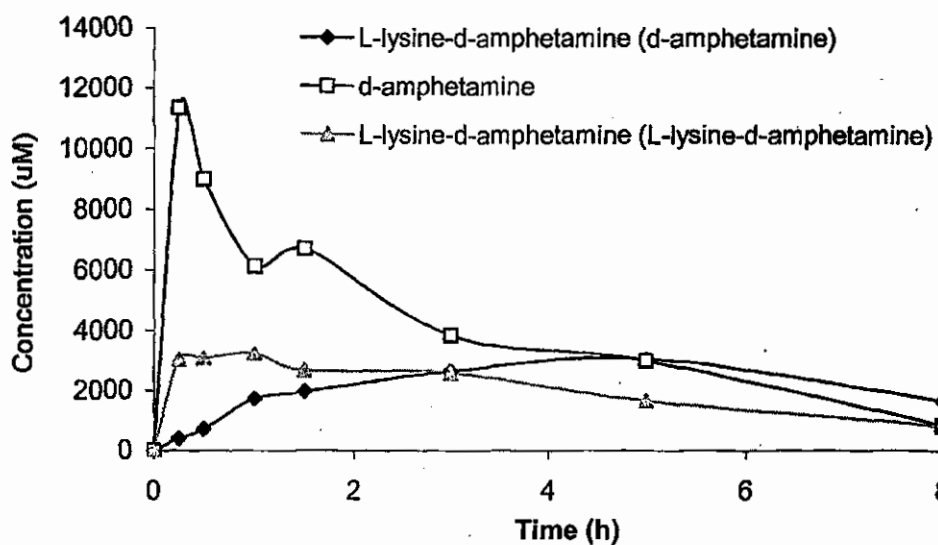


Figure 18B

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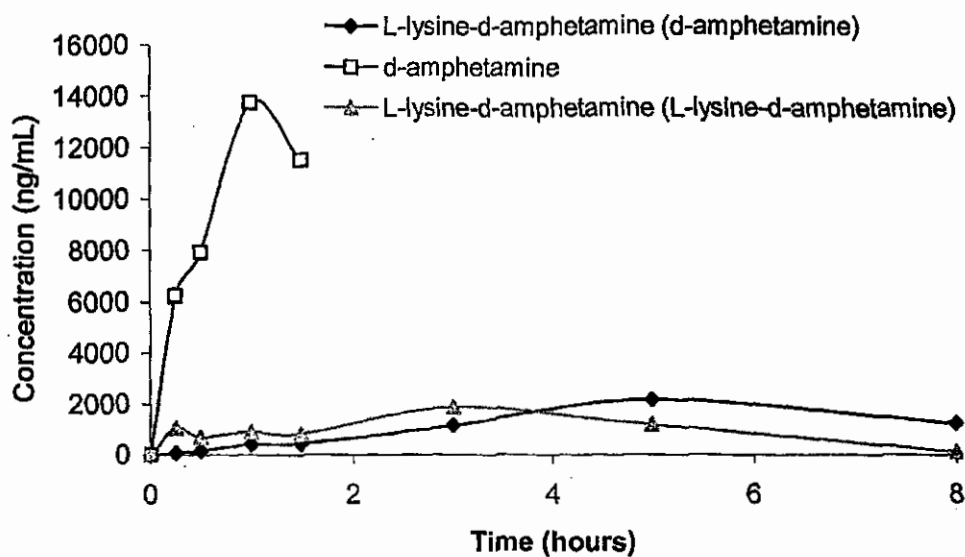


Figure 19A

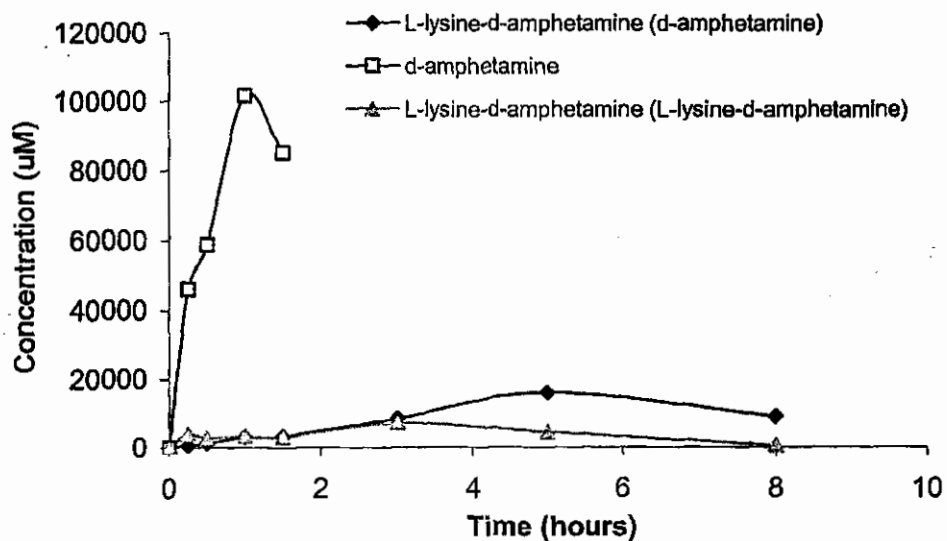


Figure 19B

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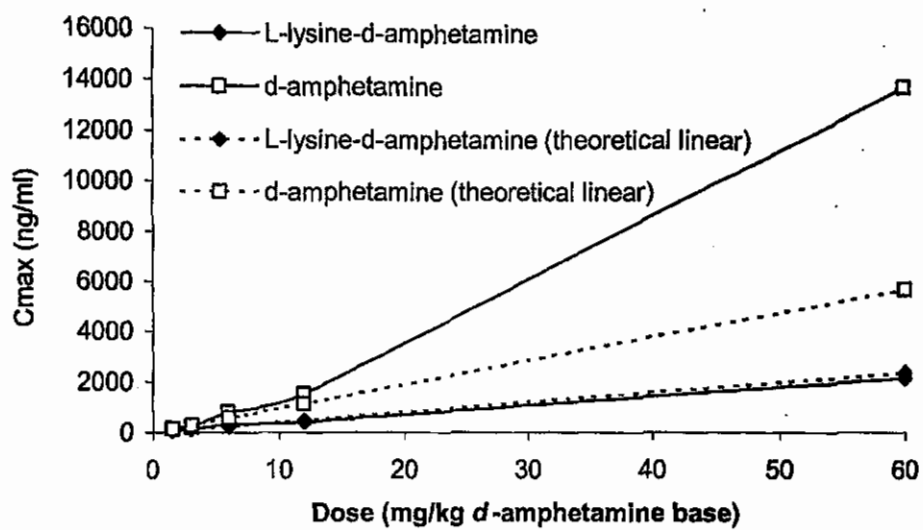


Figure 20

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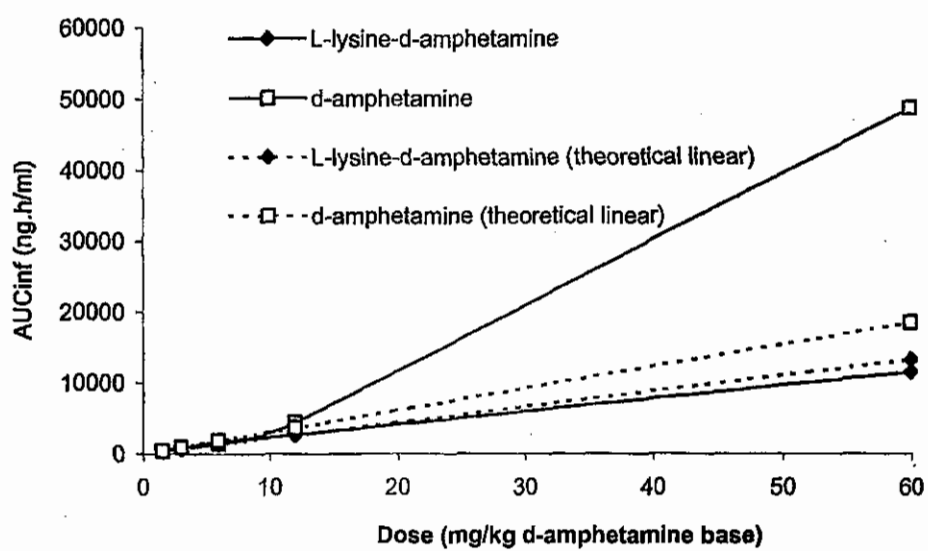


Figure 21

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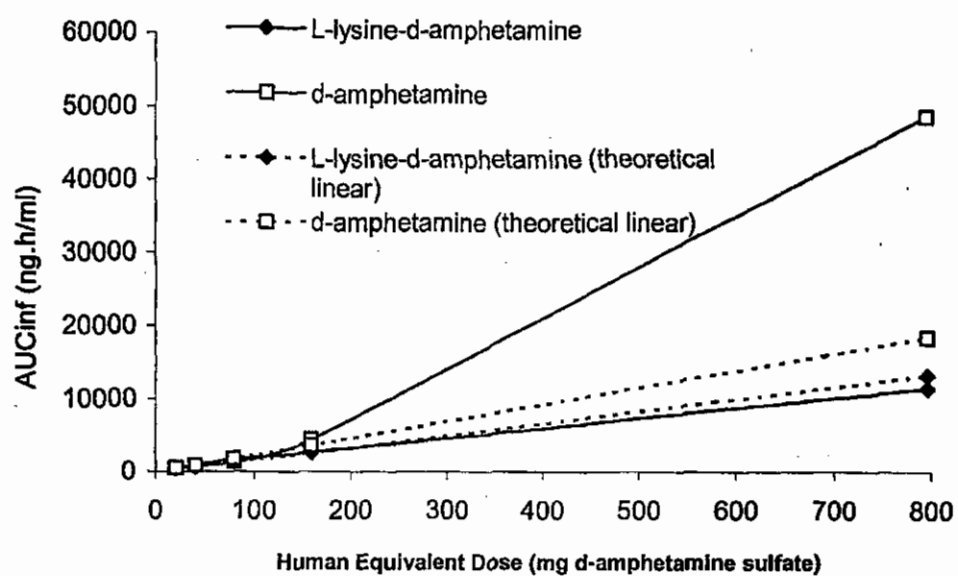


Figure 22

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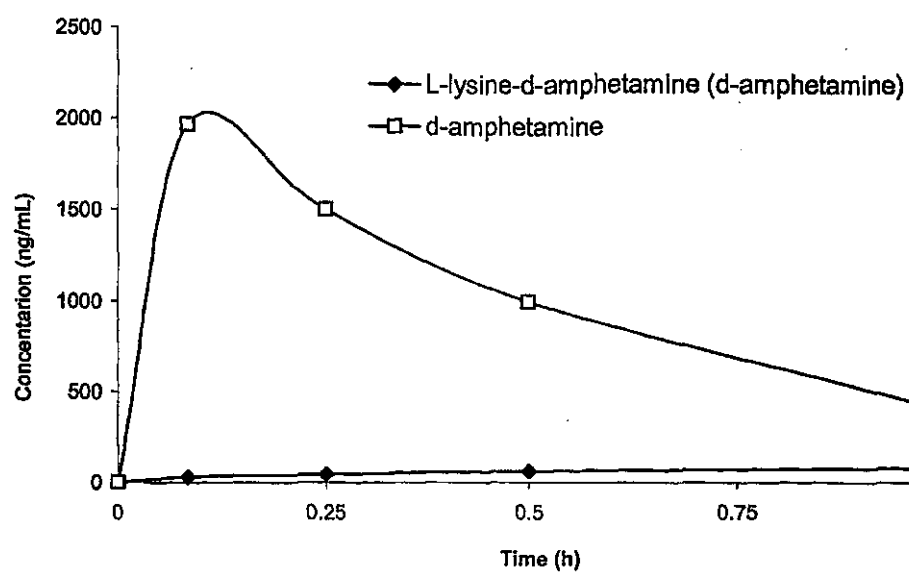


Figure 23

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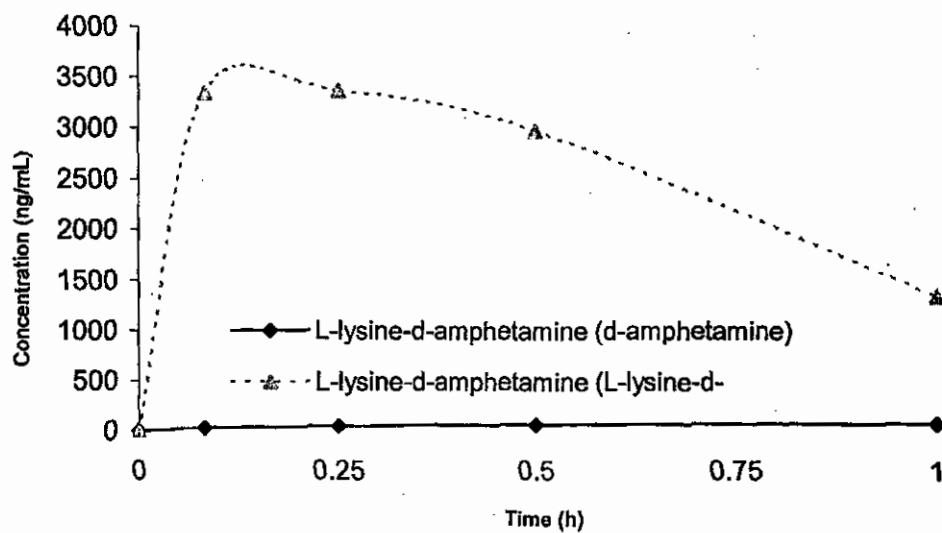


Figure 24A

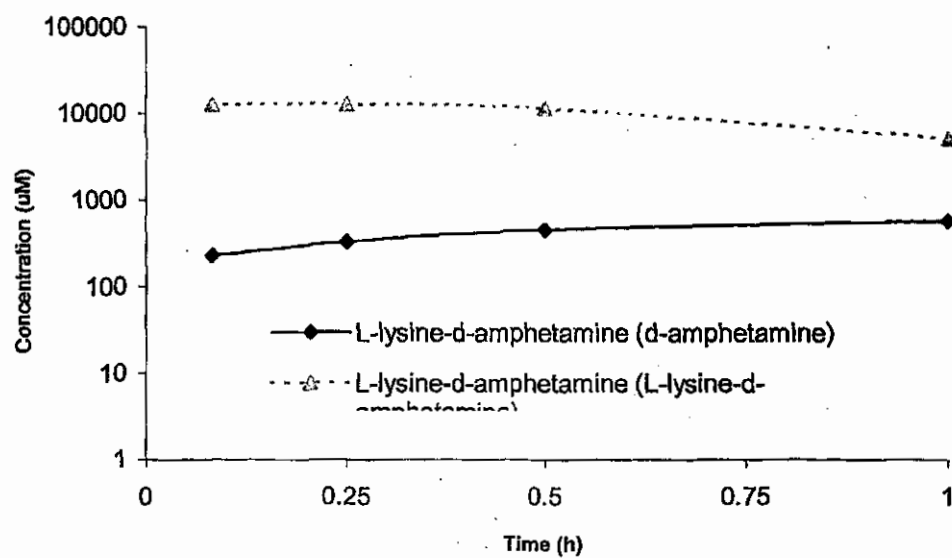


Figure 24B

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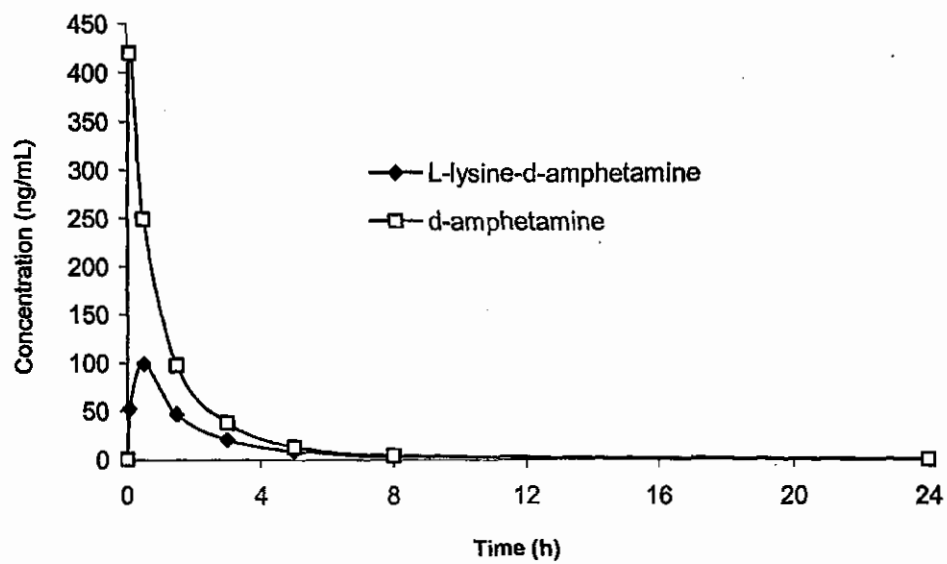


Figure 25

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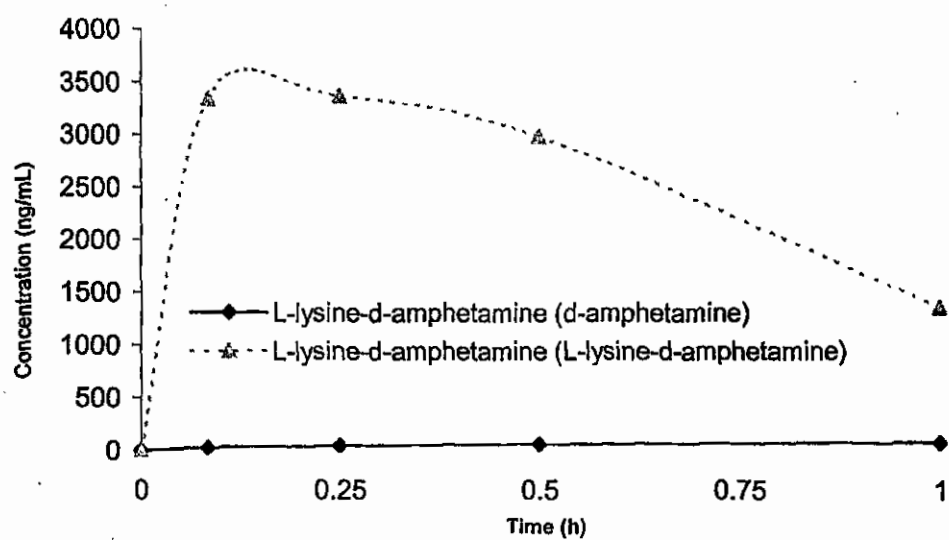


Figure 26A

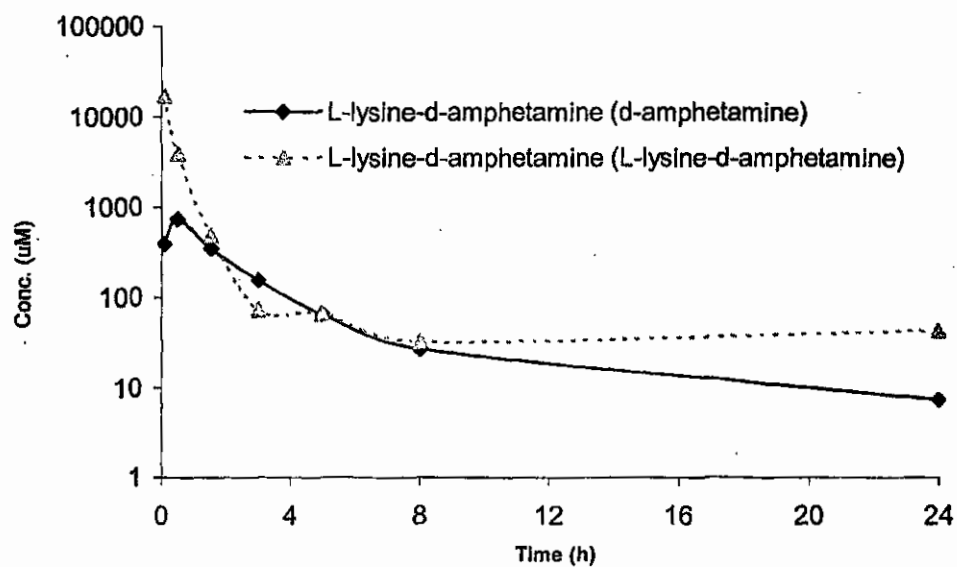


Figure 26B

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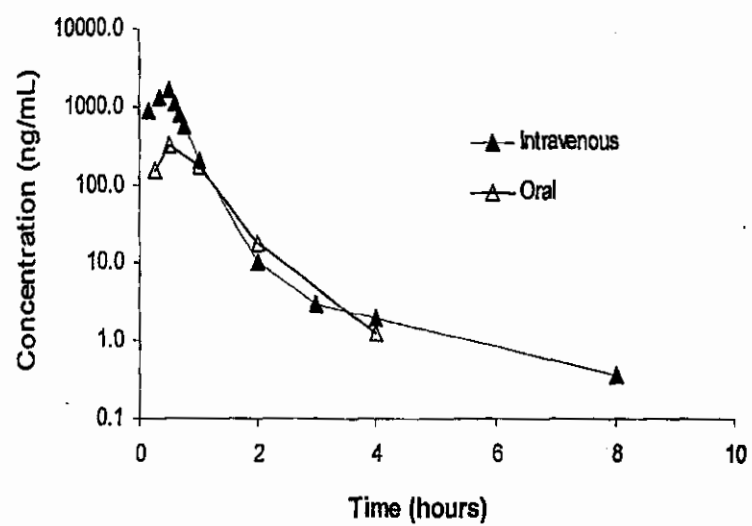


Figure 27

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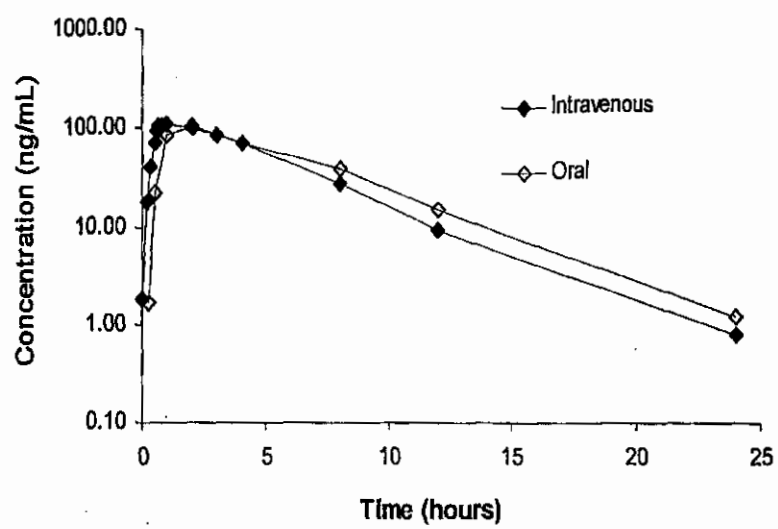


Figure 28

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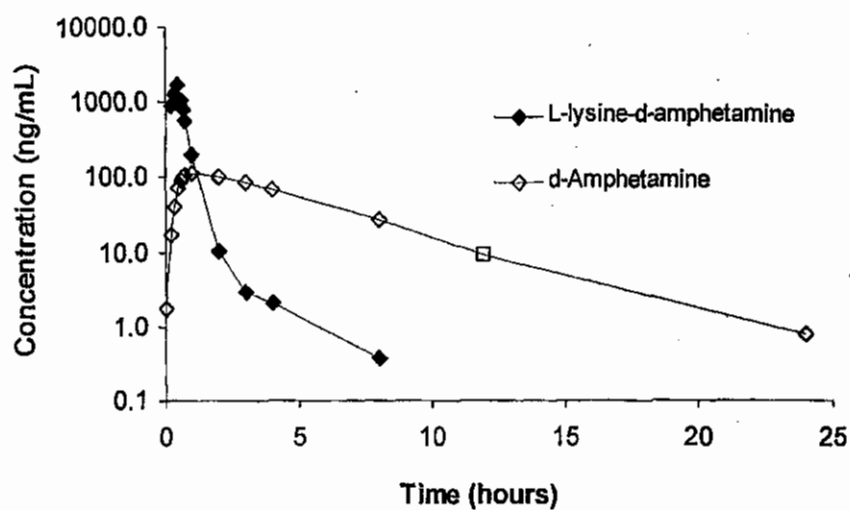


Figure 29A

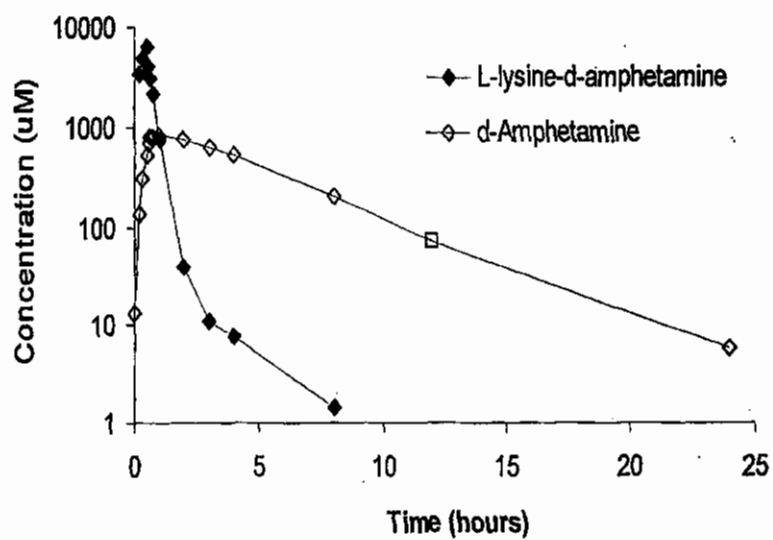


Figure 29B

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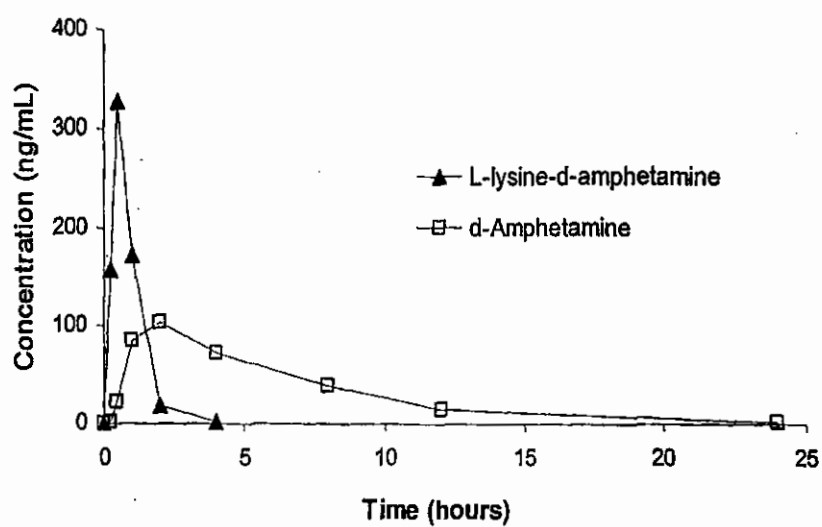


Figure 30A

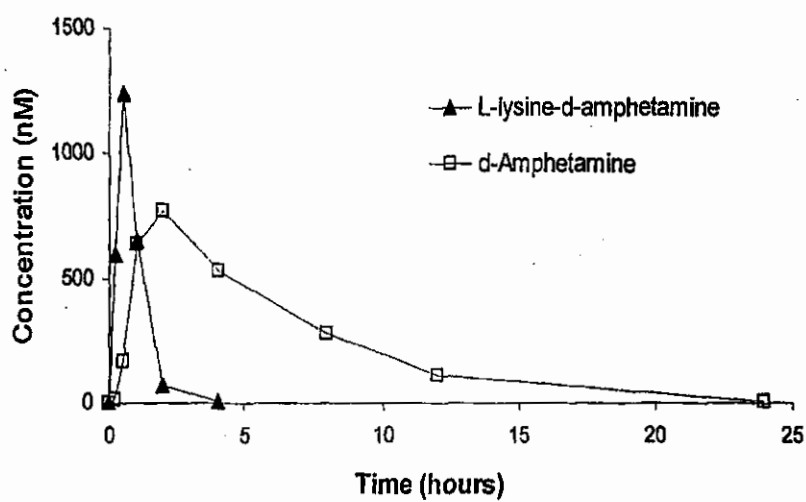


Figure 30B

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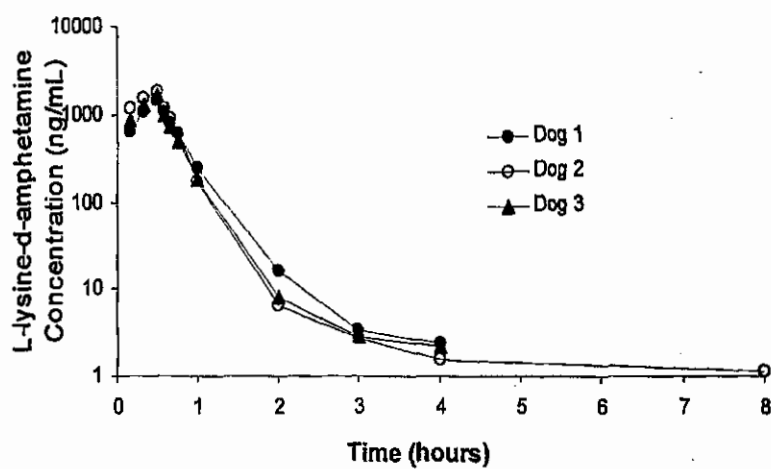


Figure 31A

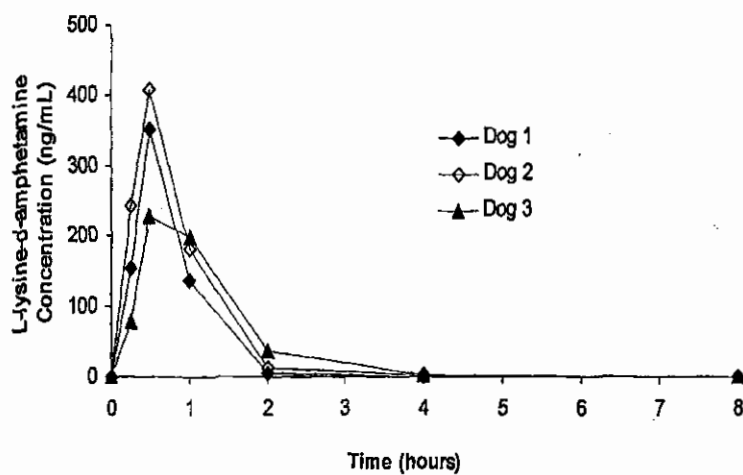


Figure 31B

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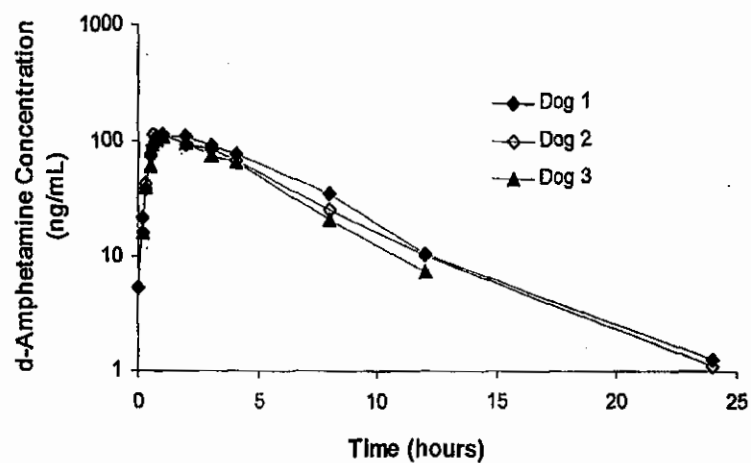


Figure 32A

Oral Formulation: Solution, 0.2 mg/mL in water

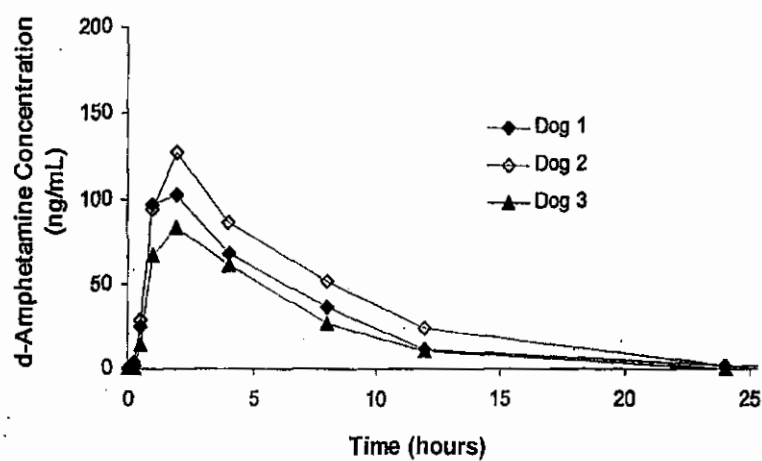


Figure 32B

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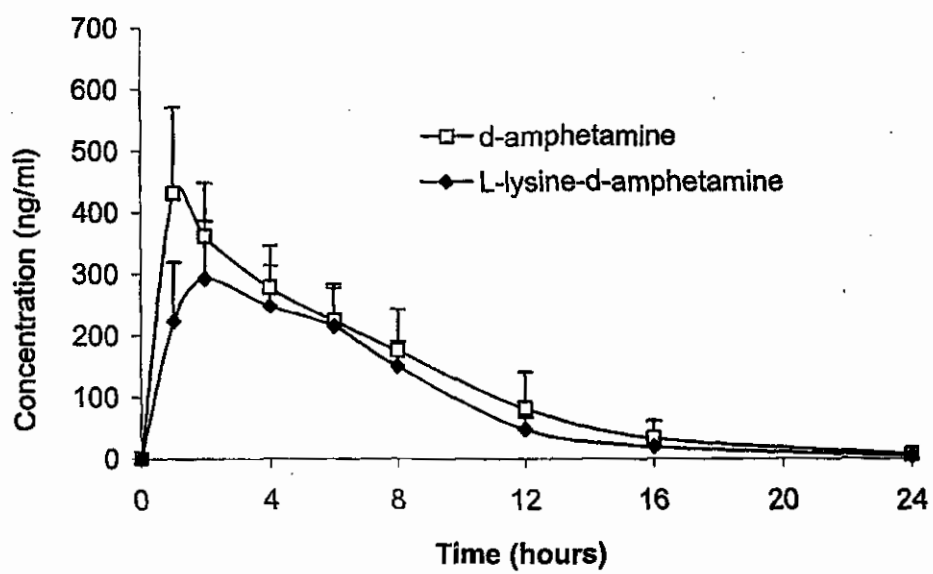


Figure 33

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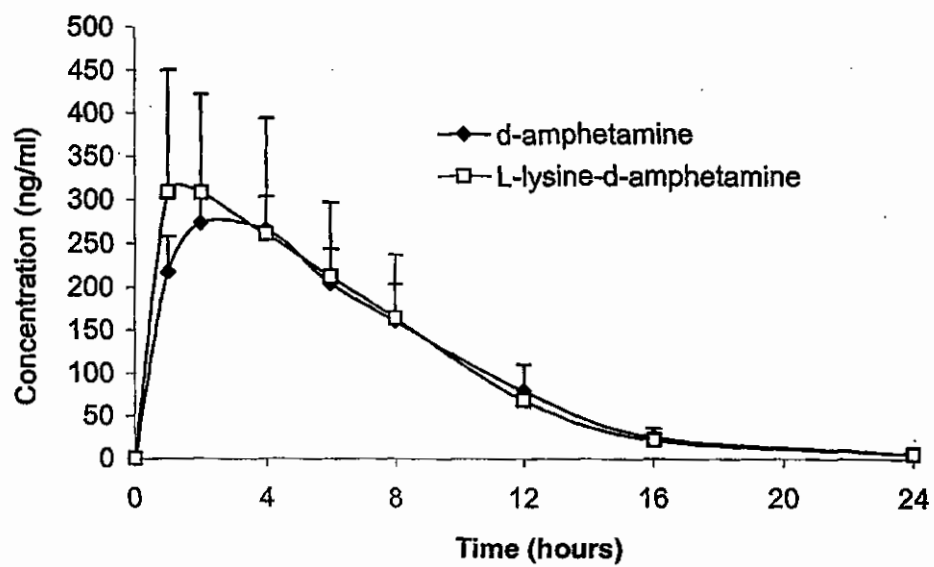


Figure 34

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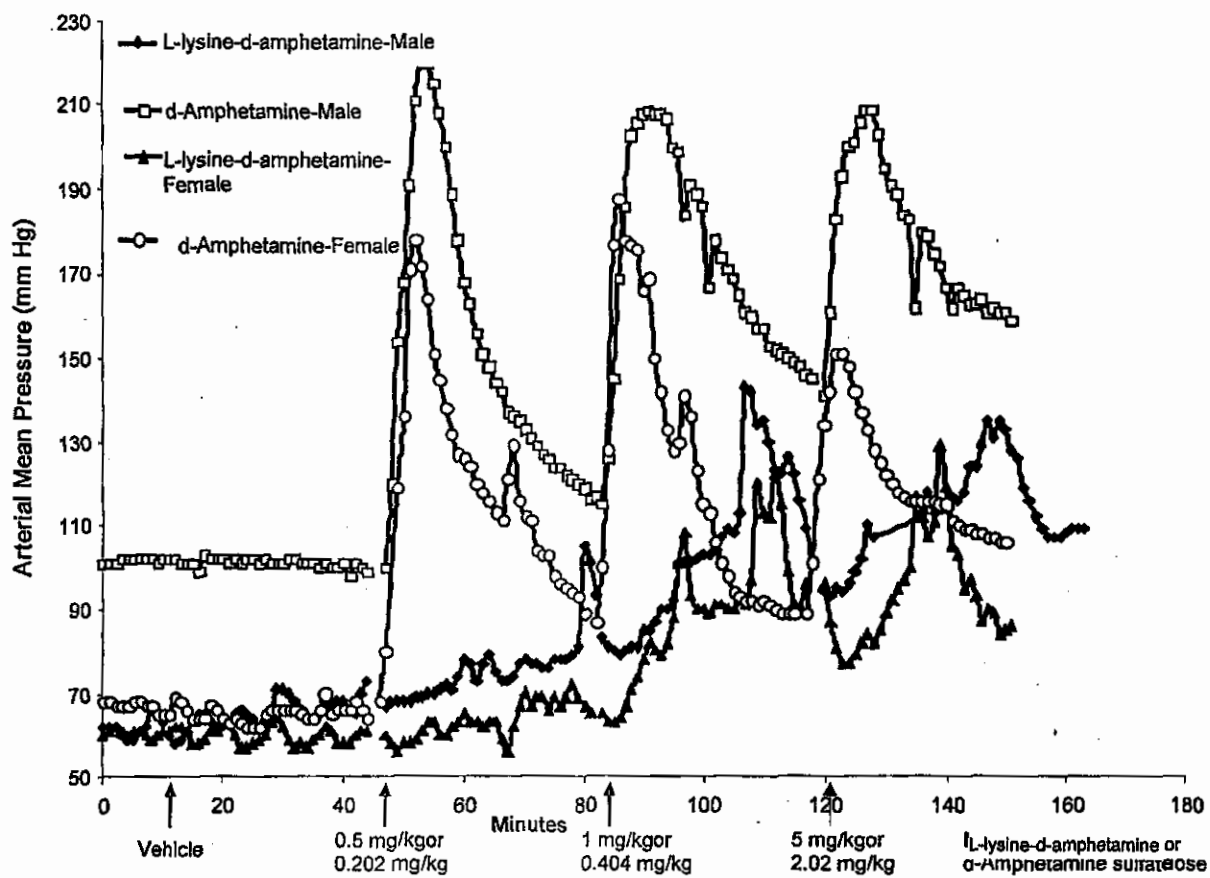


Figure 35

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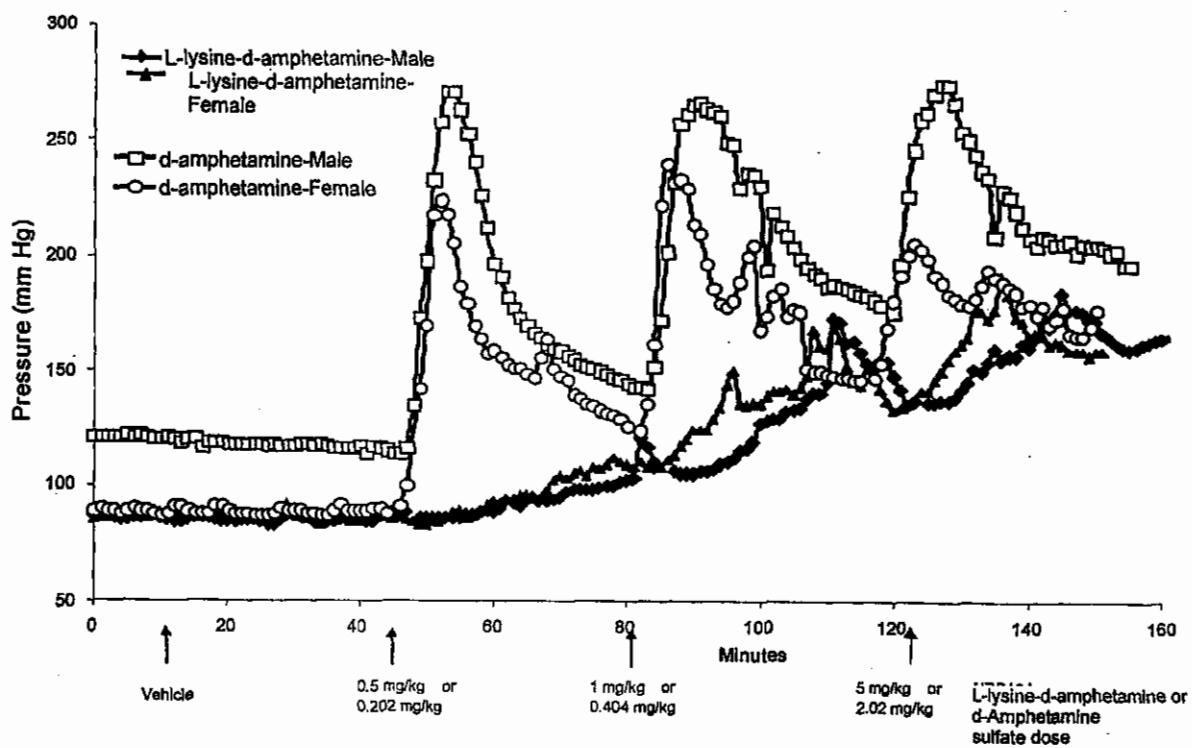


Figure 36

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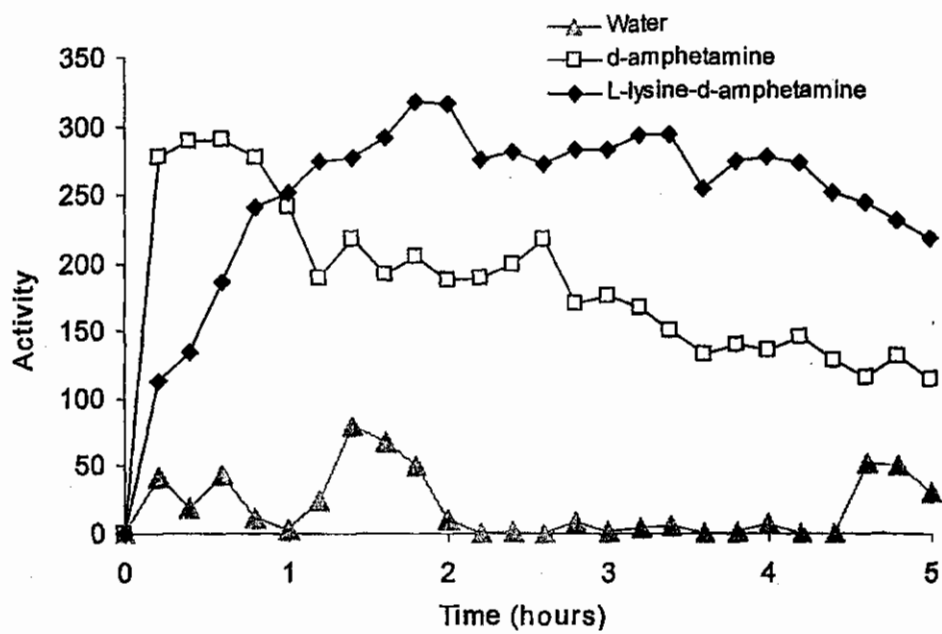


Figure 37

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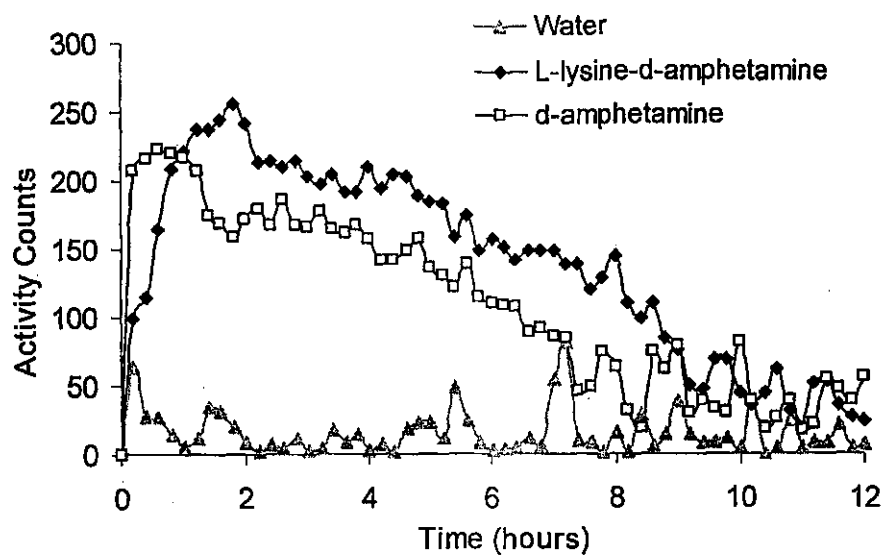


Figure 38

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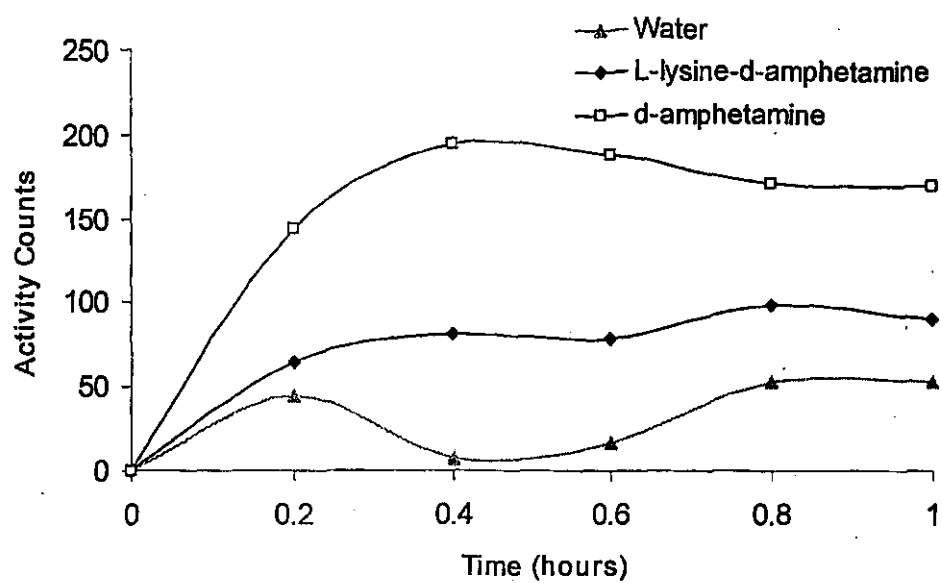


Figure 39

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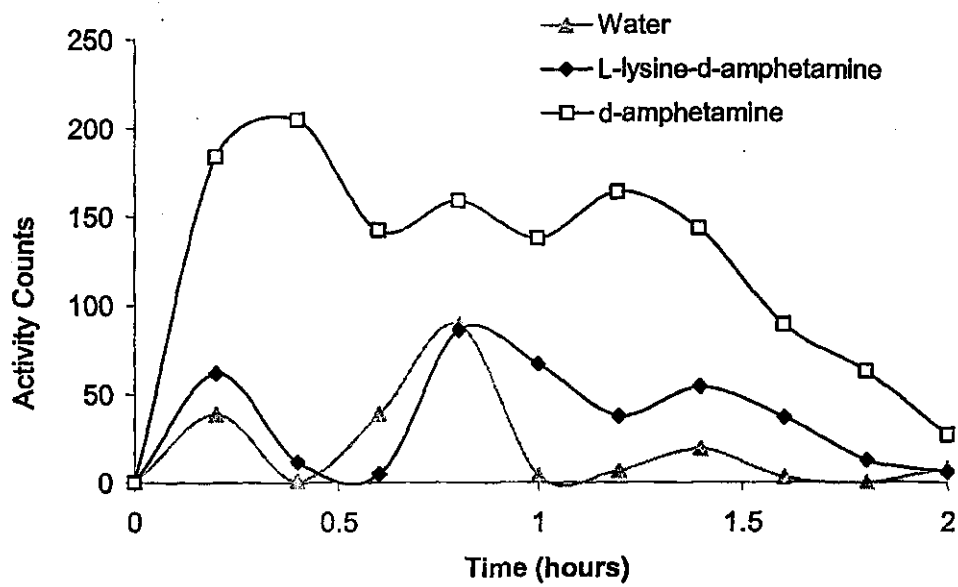


Figure 40

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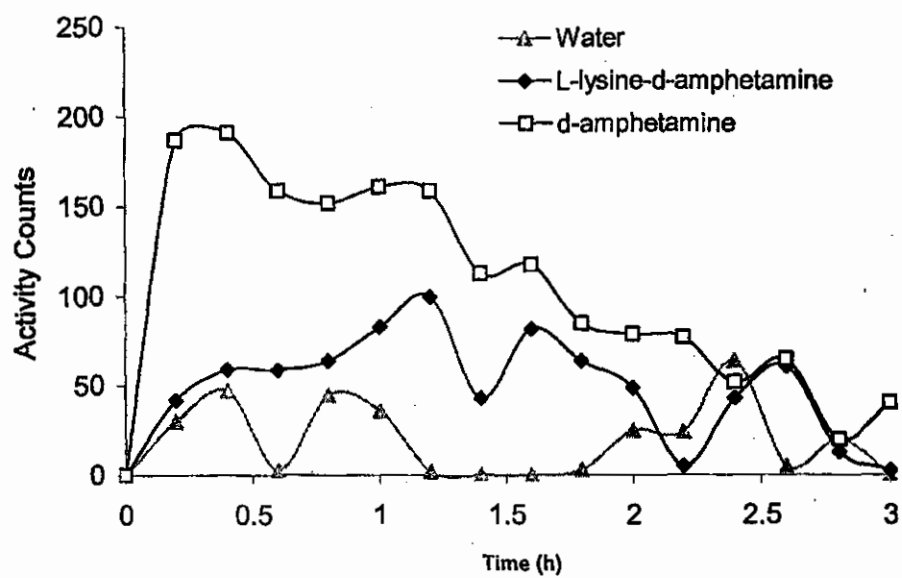


Figure 41

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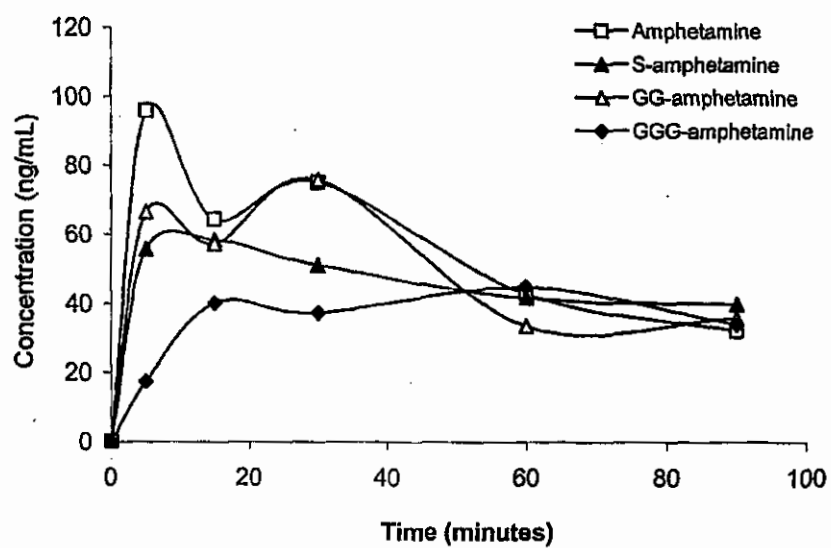


Figure 42

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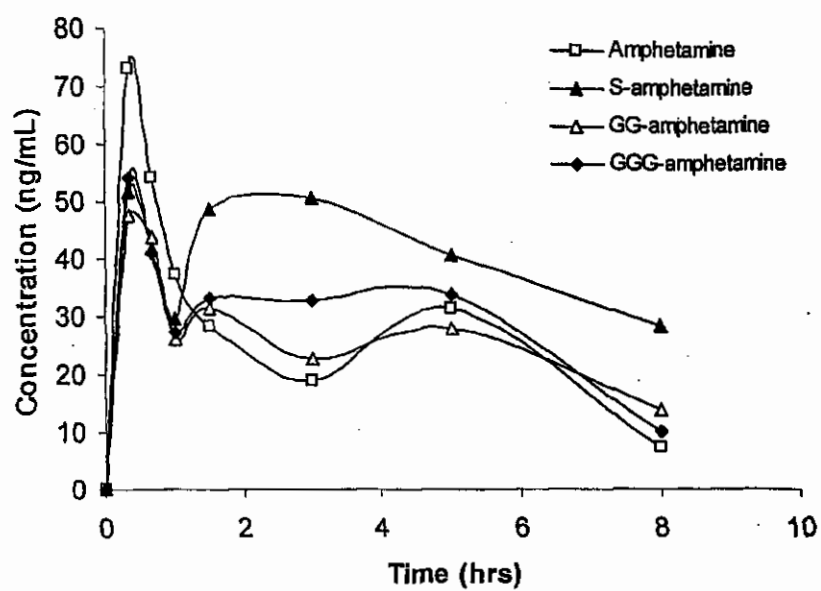


Figure 43

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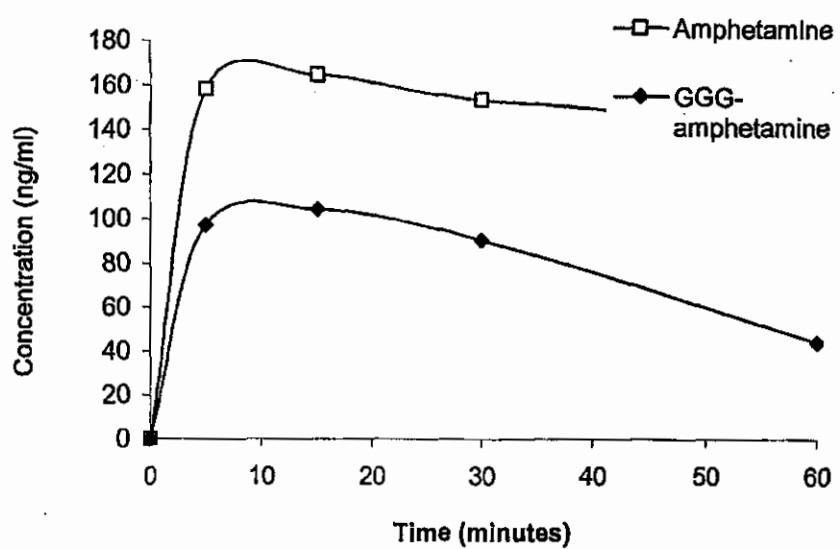


Figure 44

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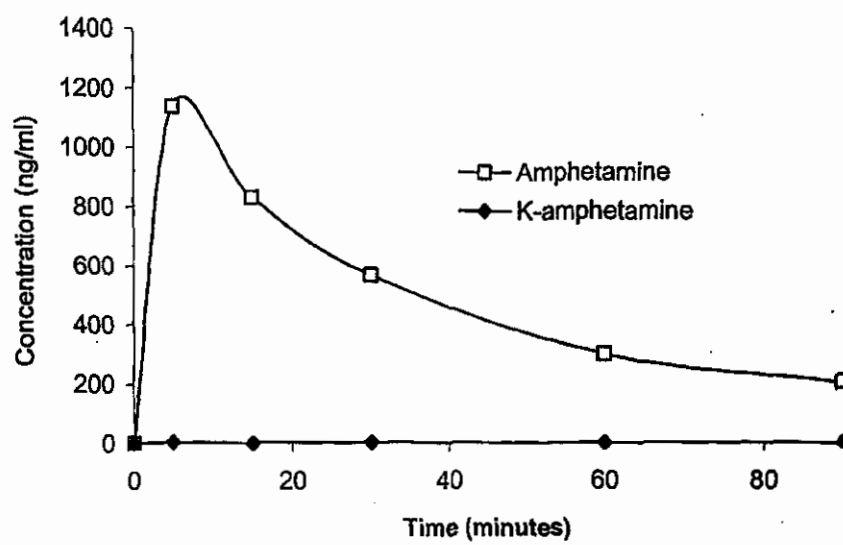


Figure 45

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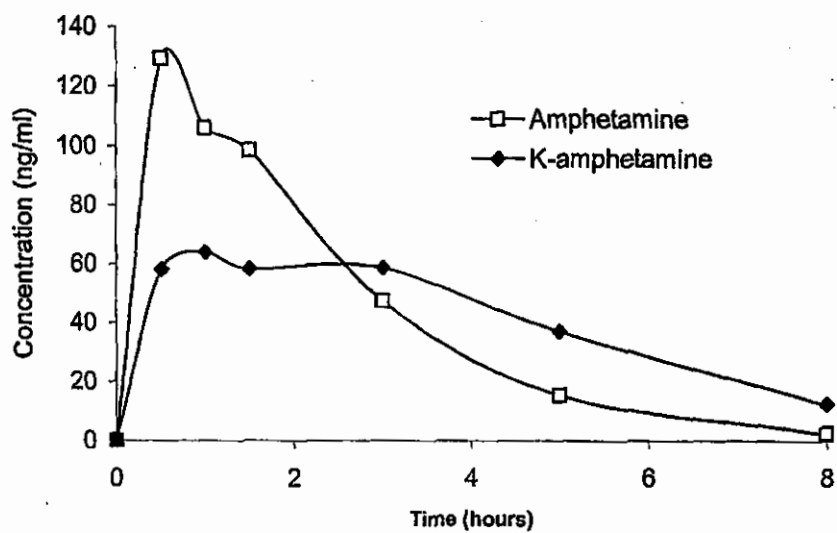


Figure 46

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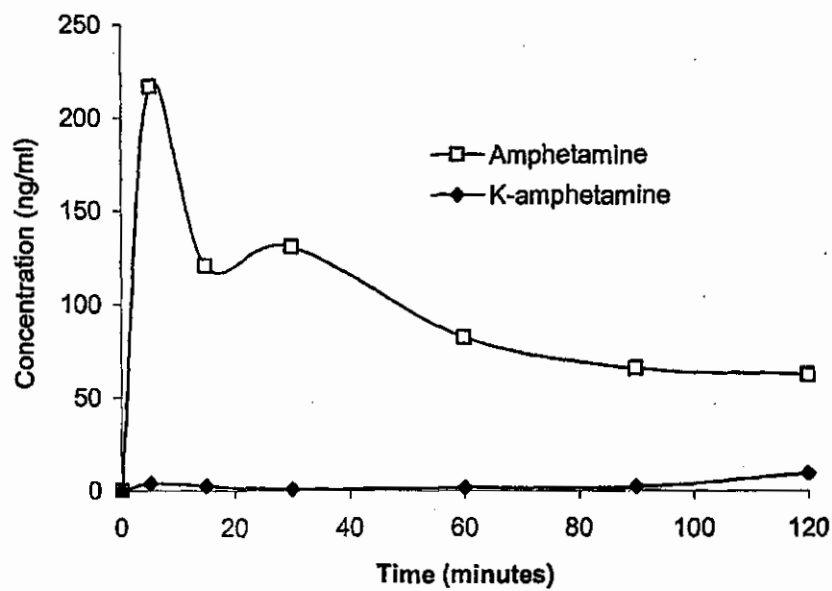


Figure 47

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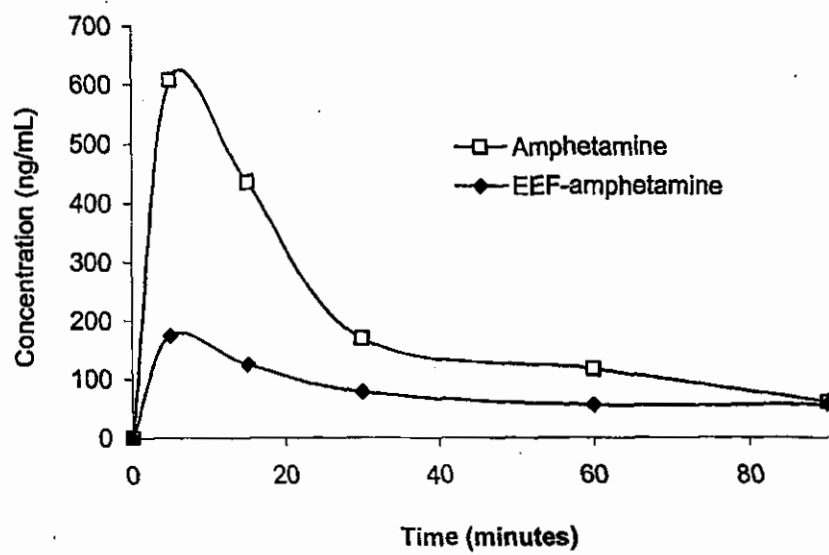


Figure 48

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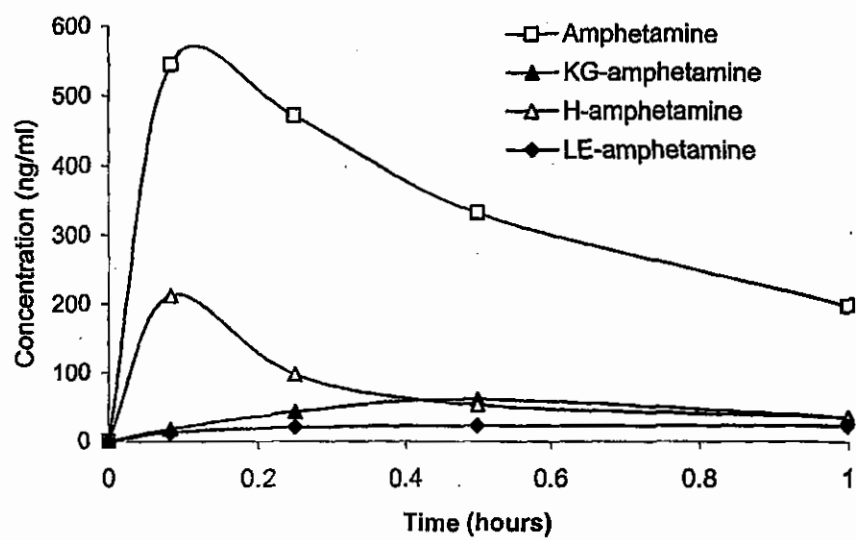


Figure 49

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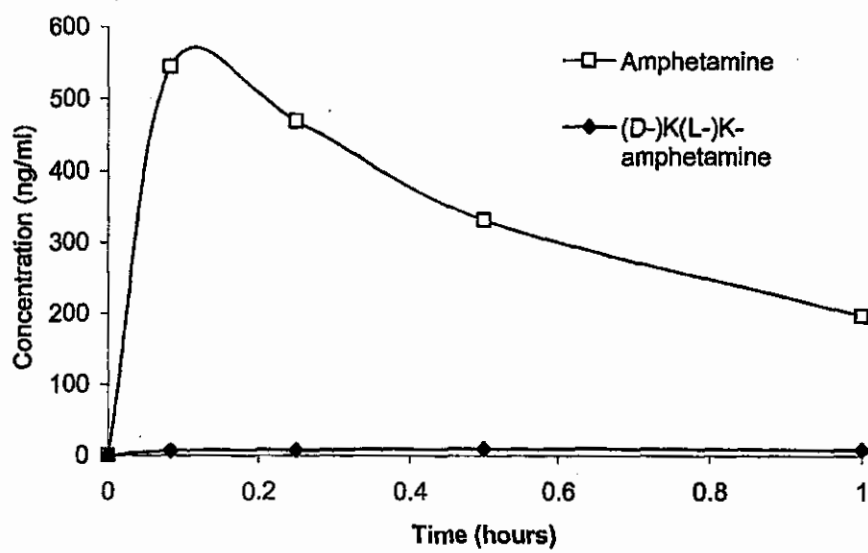


Figure 50

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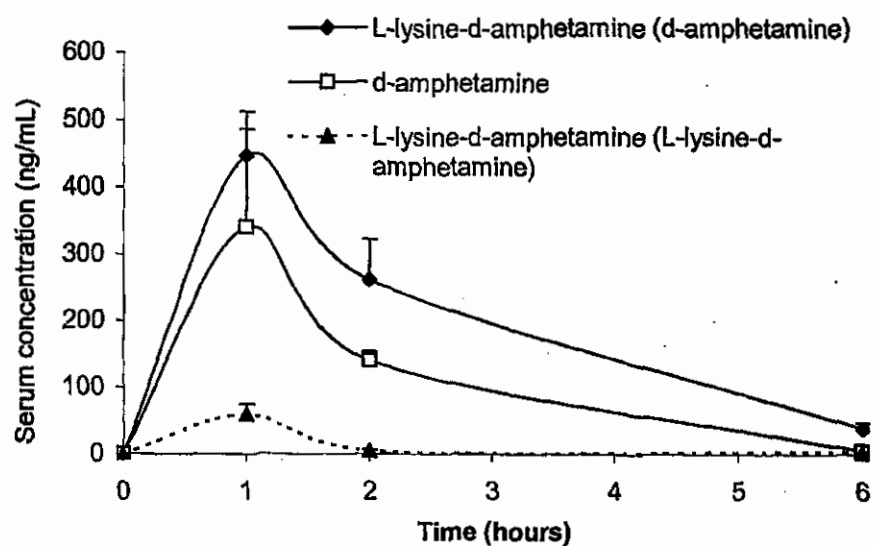


Figure 51A

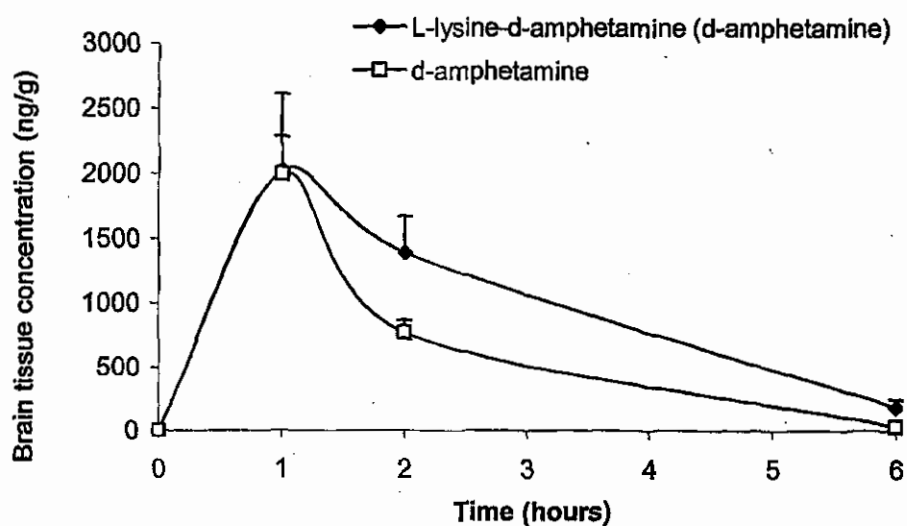
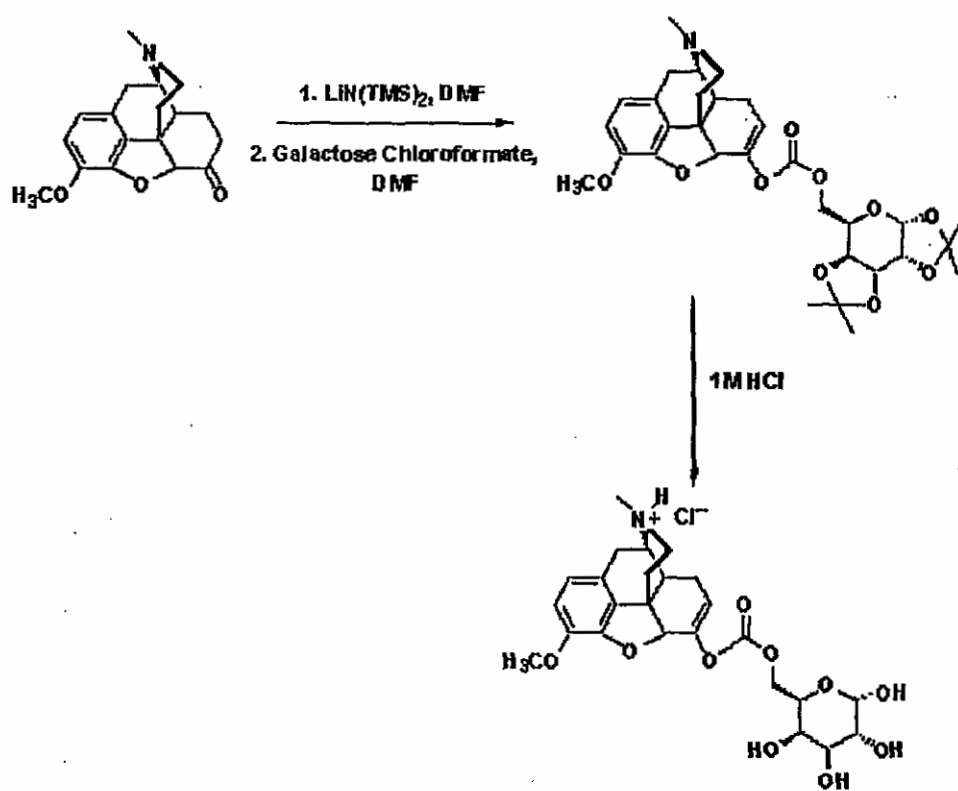


Figure 51B

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Figure 52



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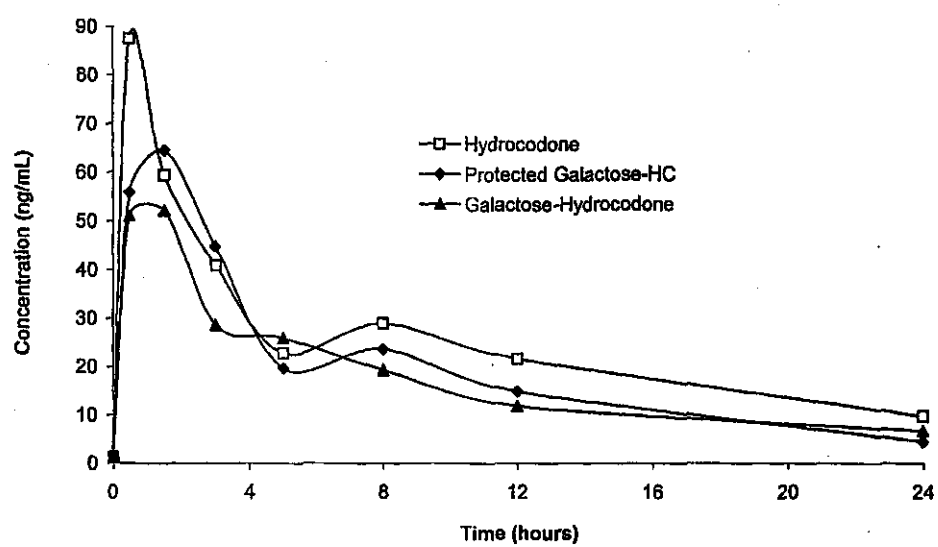
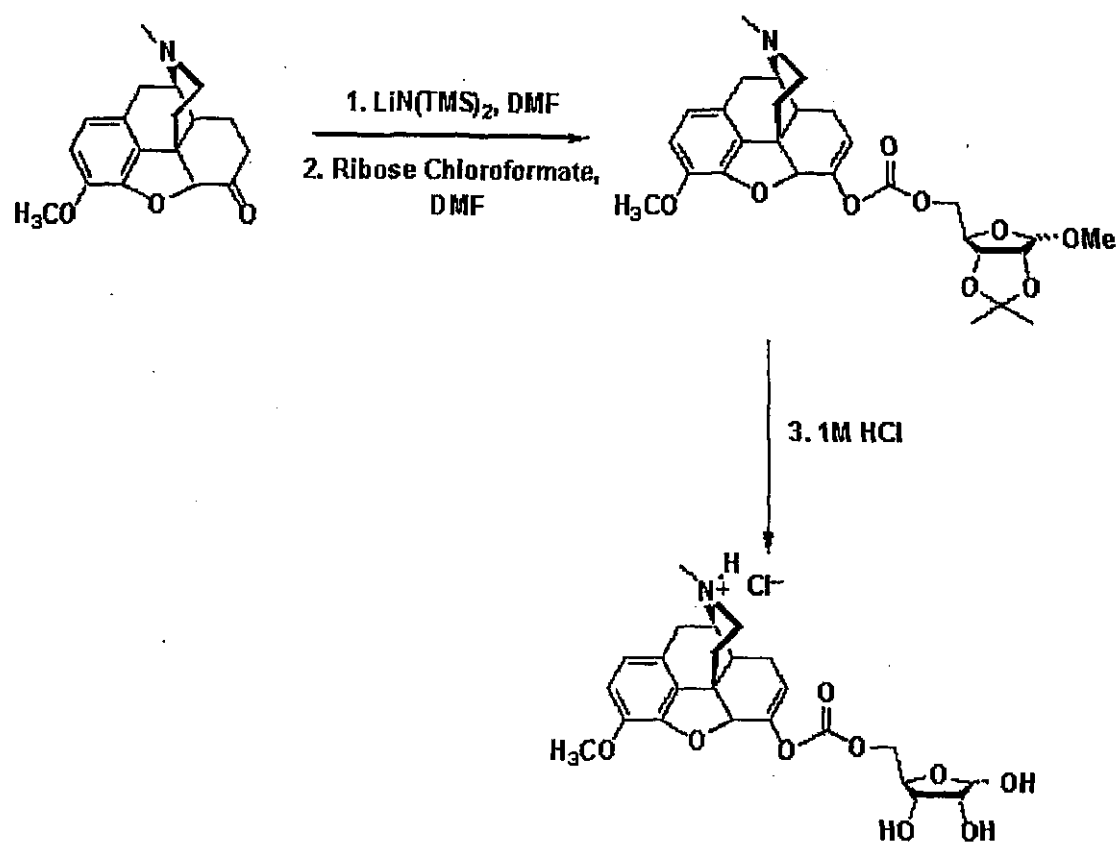


Figure 53

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Figure 54



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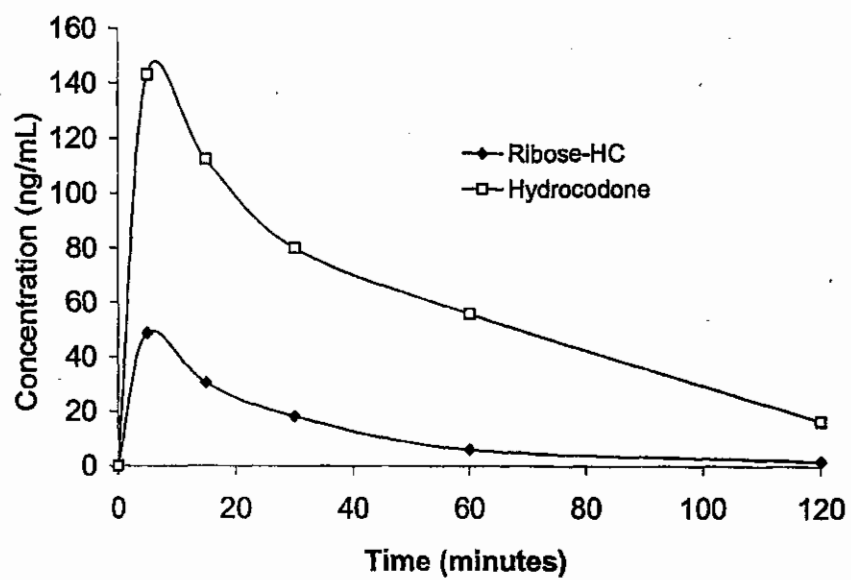
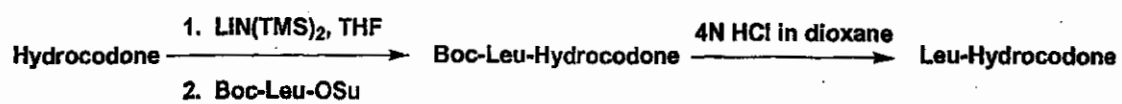


Figure 55

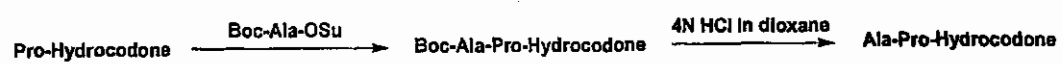
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Figure 56



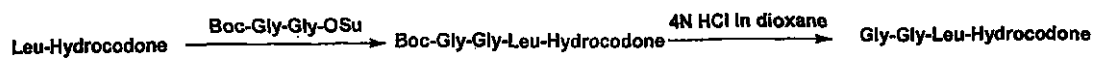
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Figure 57



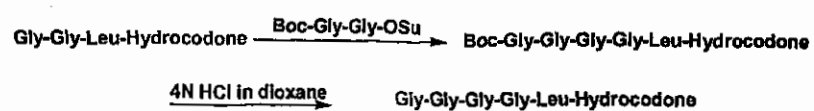
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Figure 58



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Figure 59



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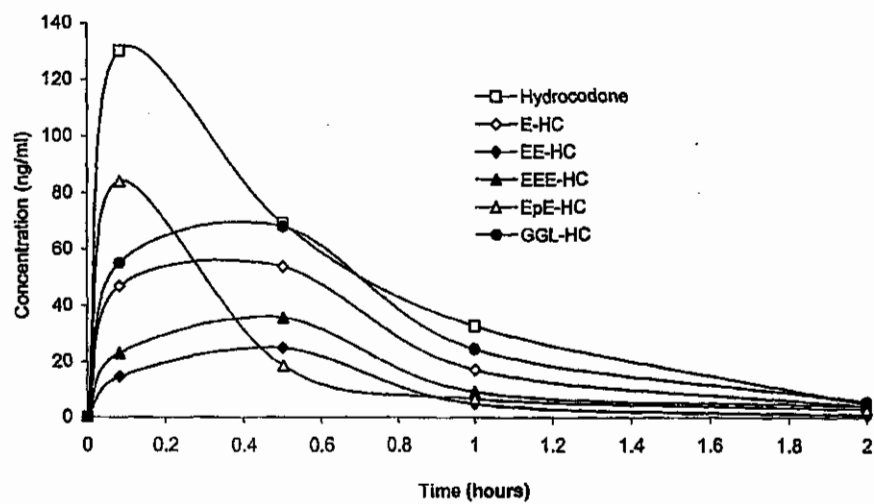


Figure 60

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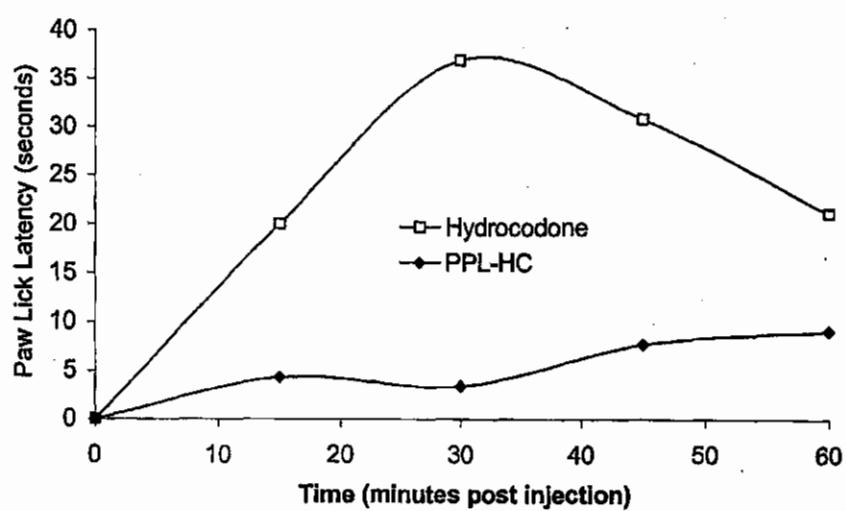


Figure 61

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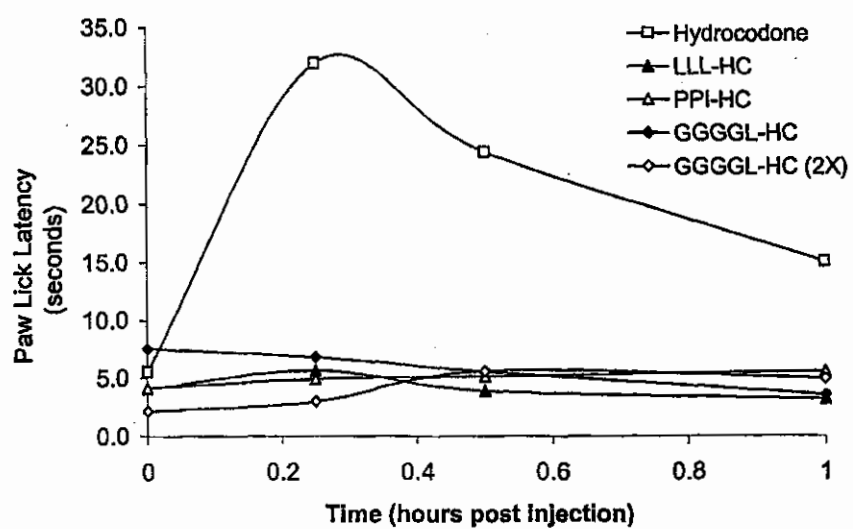


Figure 62

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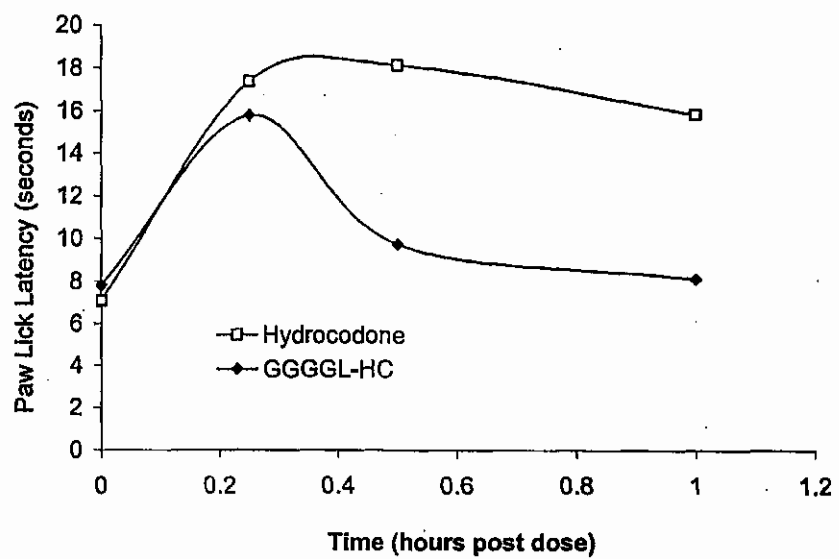


Figure 63

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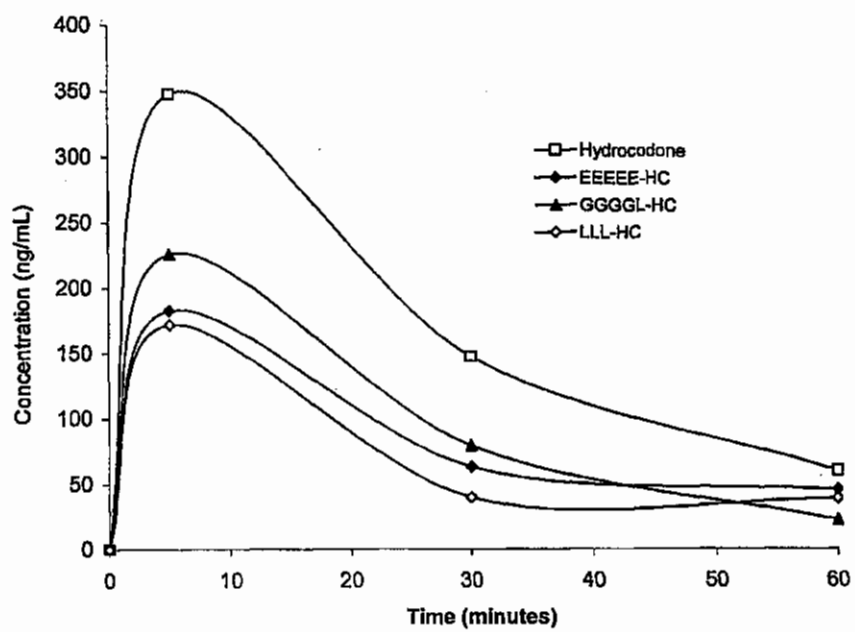


Figure 64

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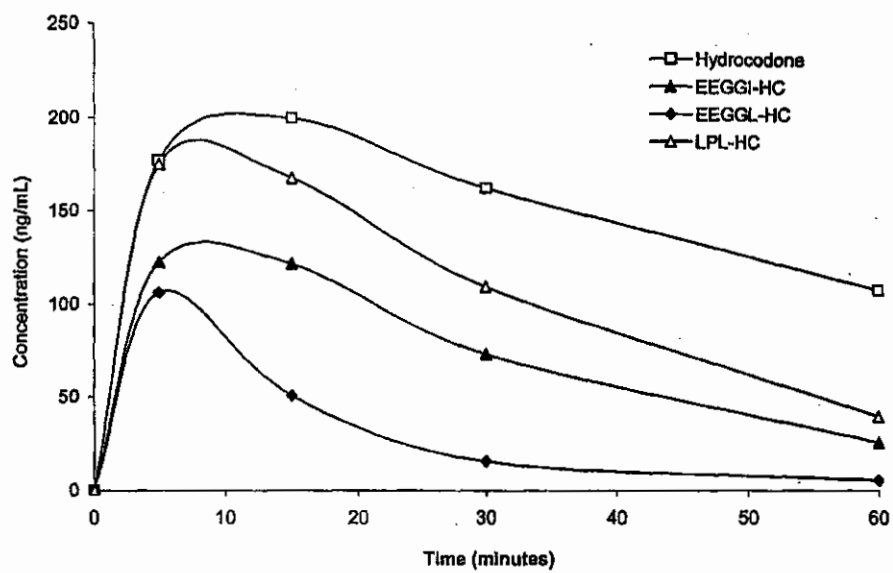


Figure 65

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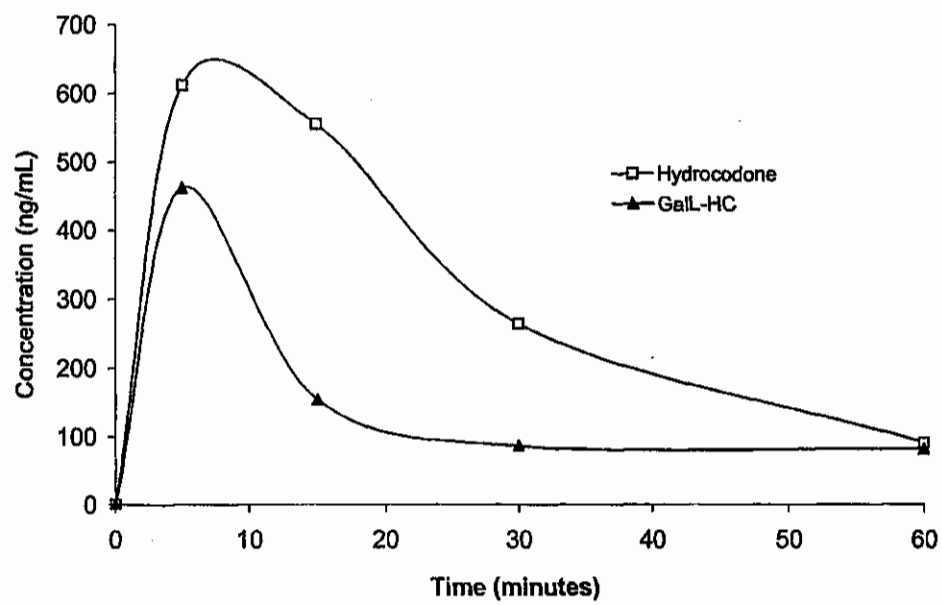


Figure 66

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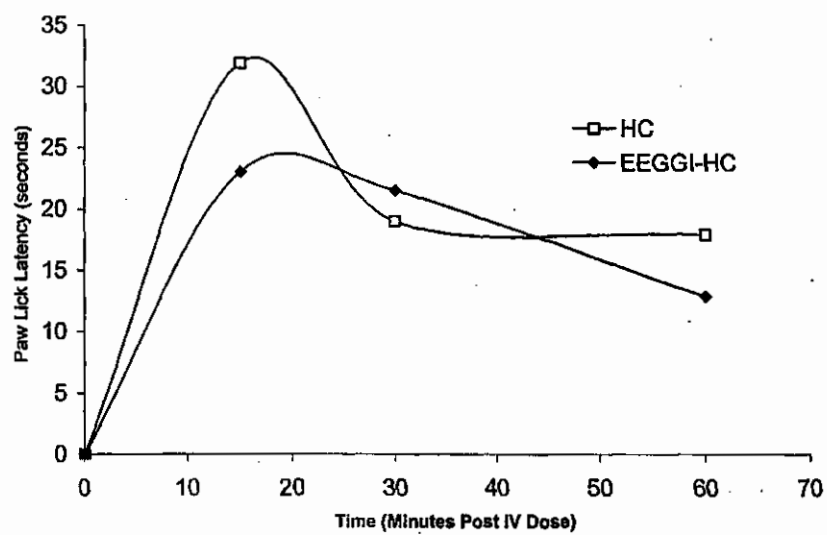


Figure 67

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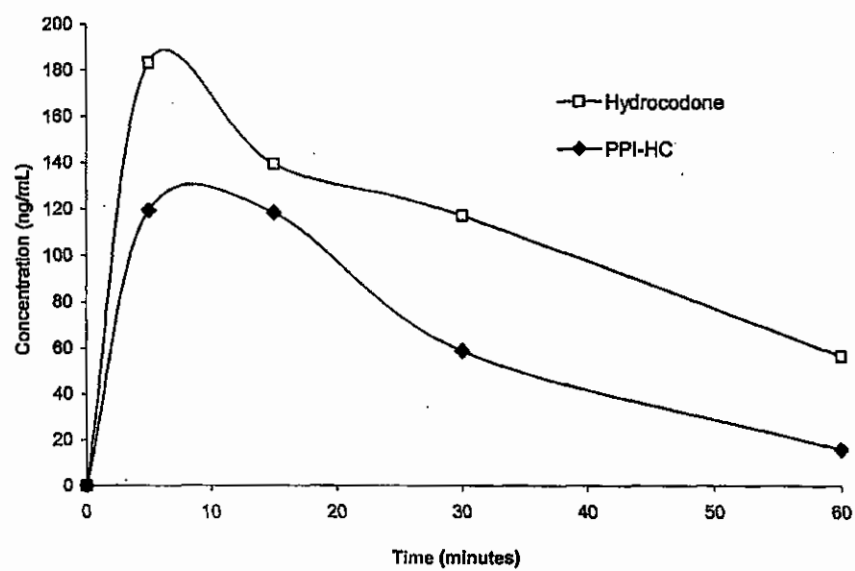


Figure 68

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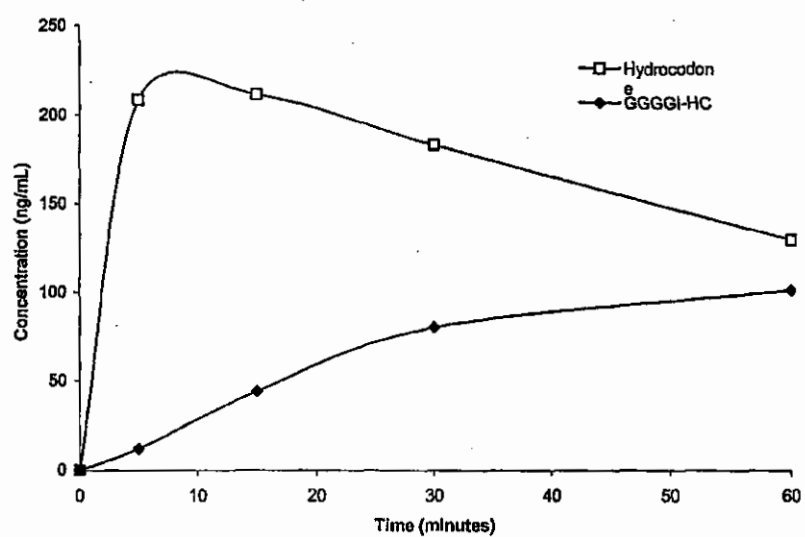


Figure 69

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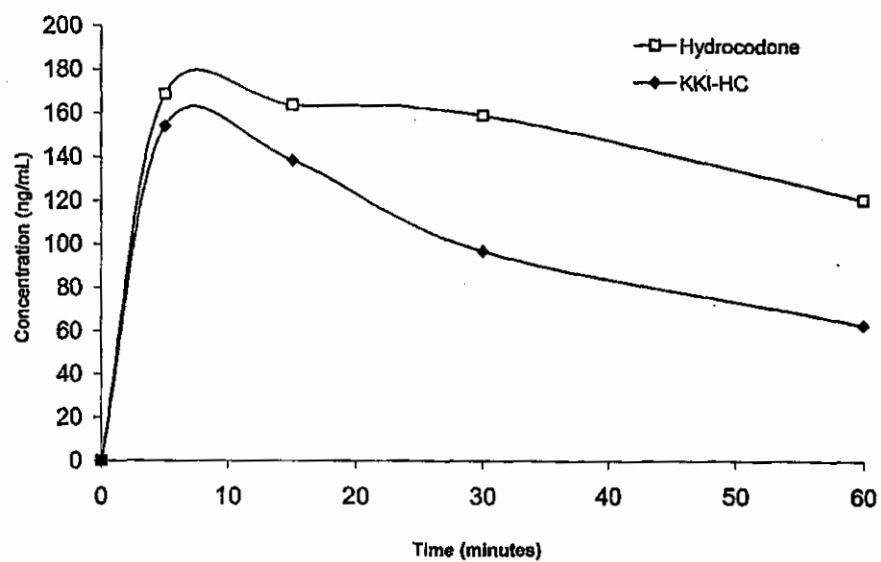


Figure 70

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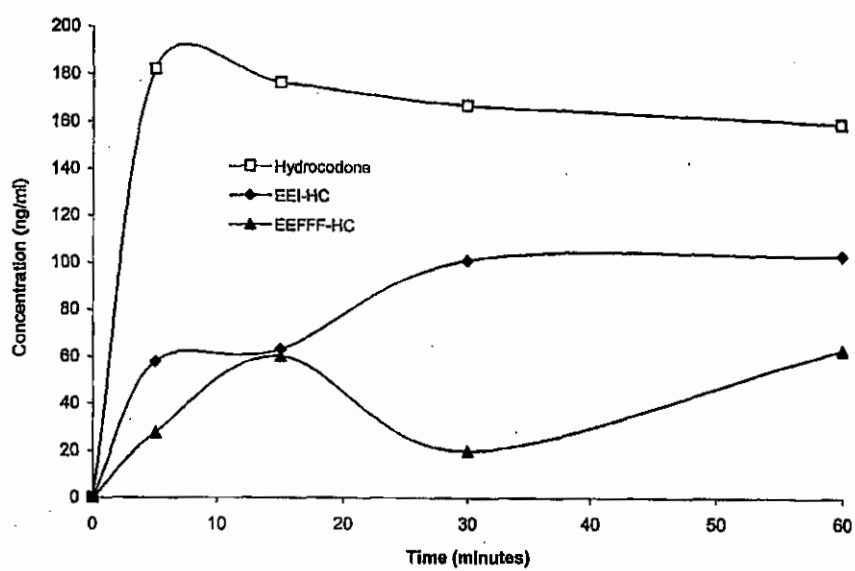


Figure 71

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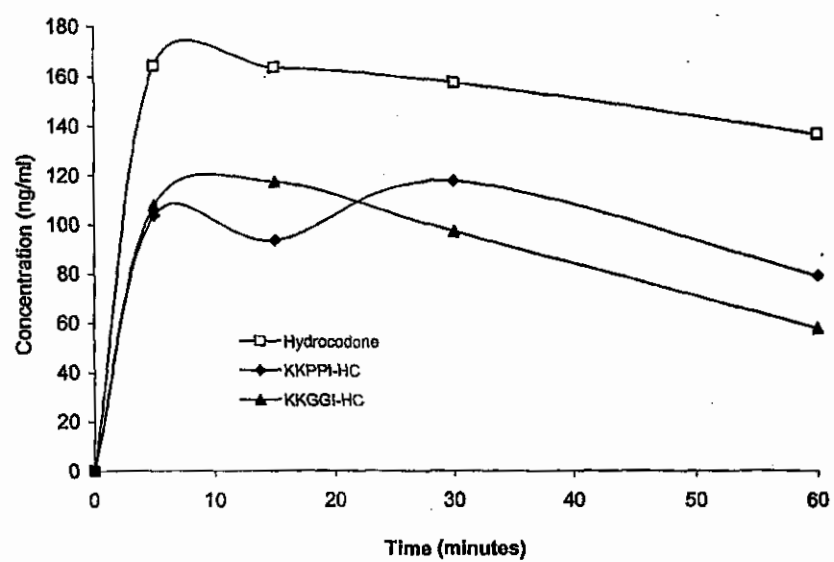


Figure 72

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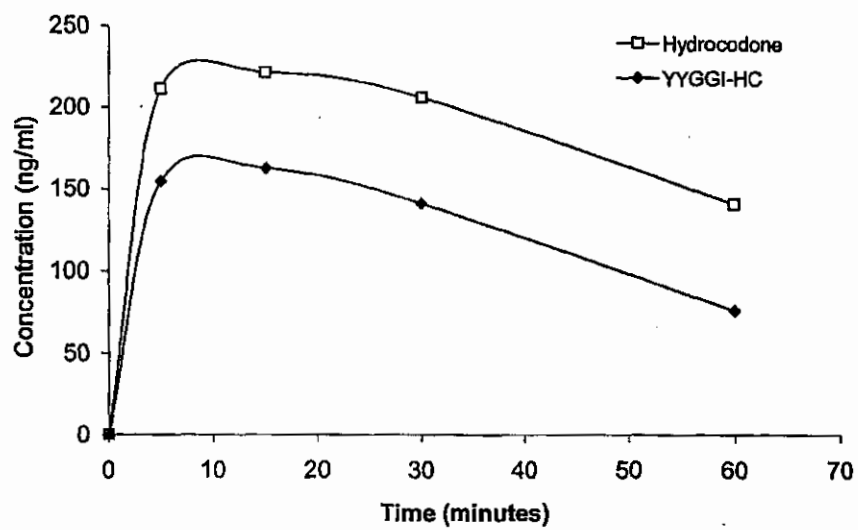


Figure 73

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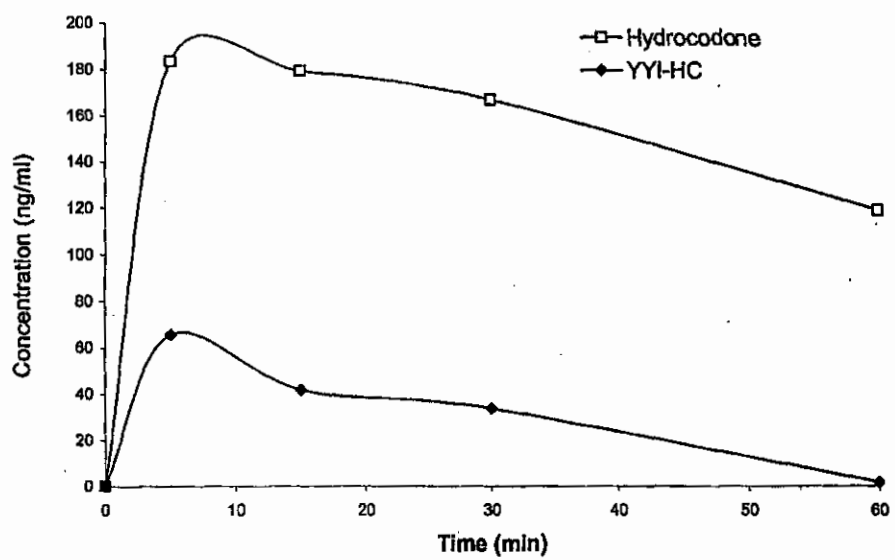


Figure 74

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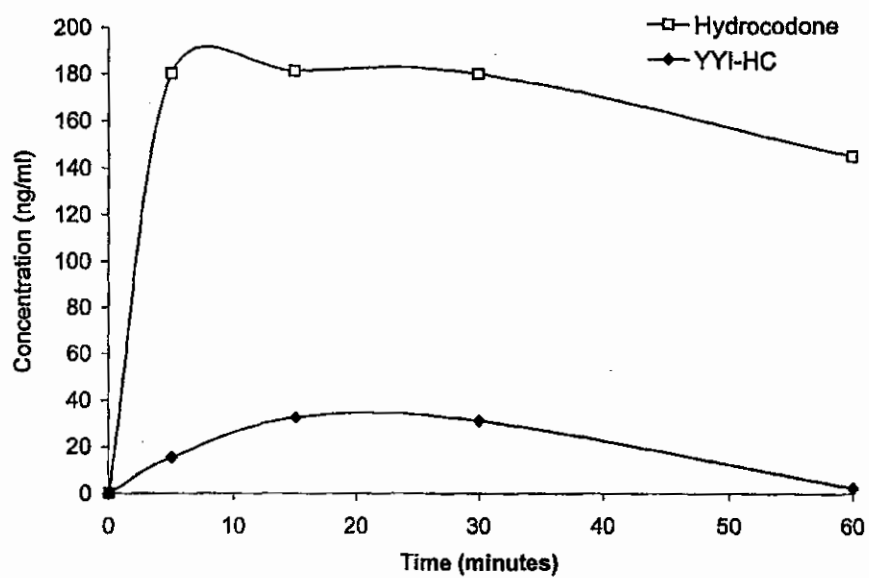


Figure 75

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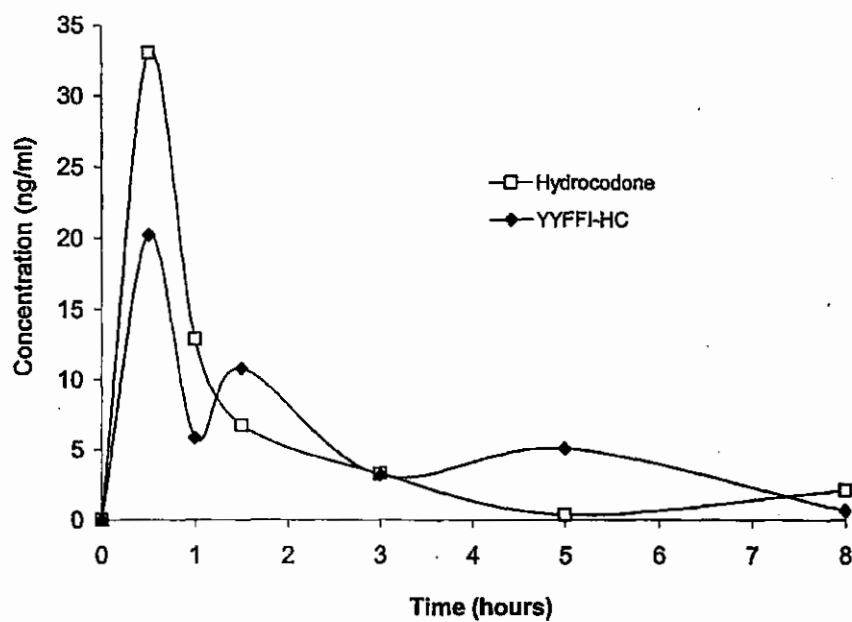


Figure 76

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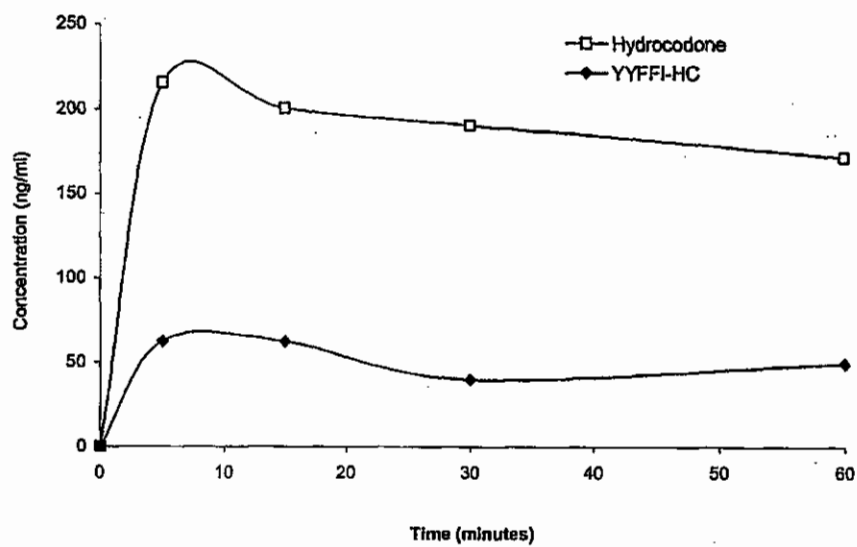


Figure 77

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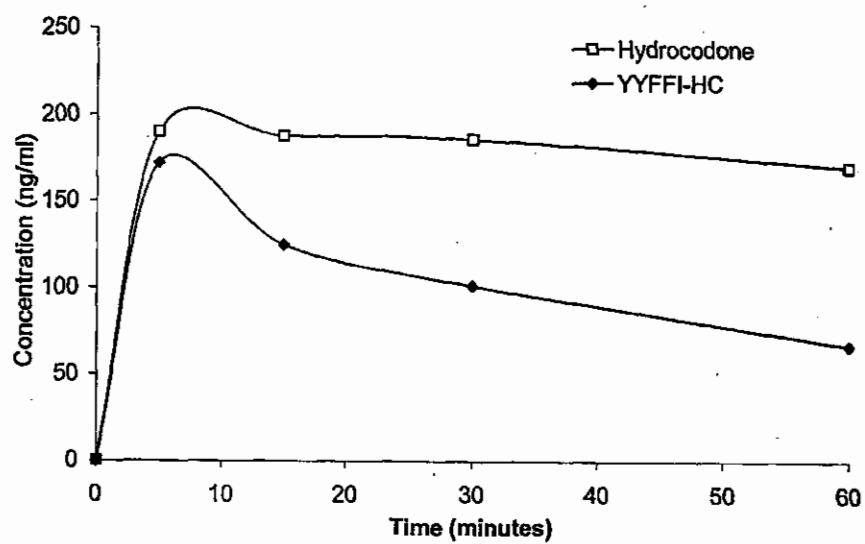


Figure 78

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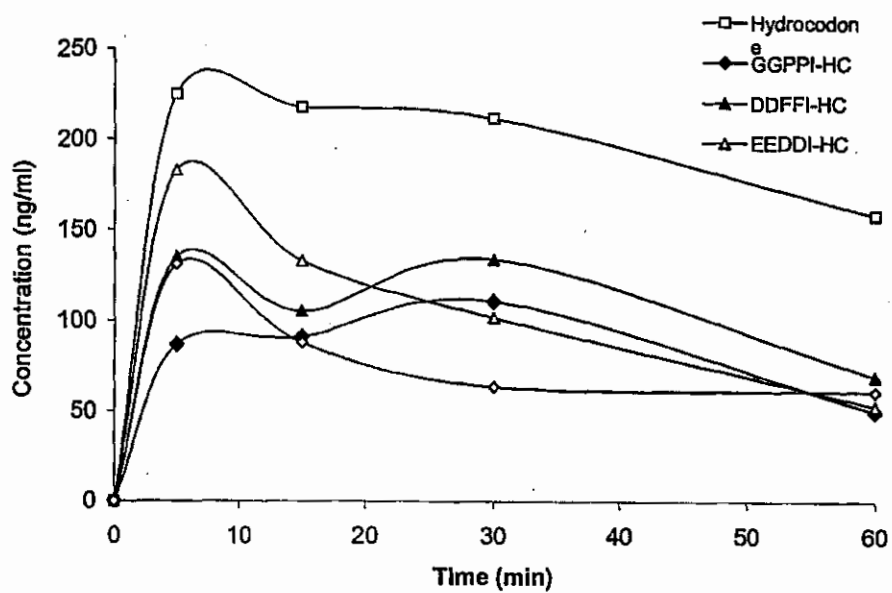


Figure 79

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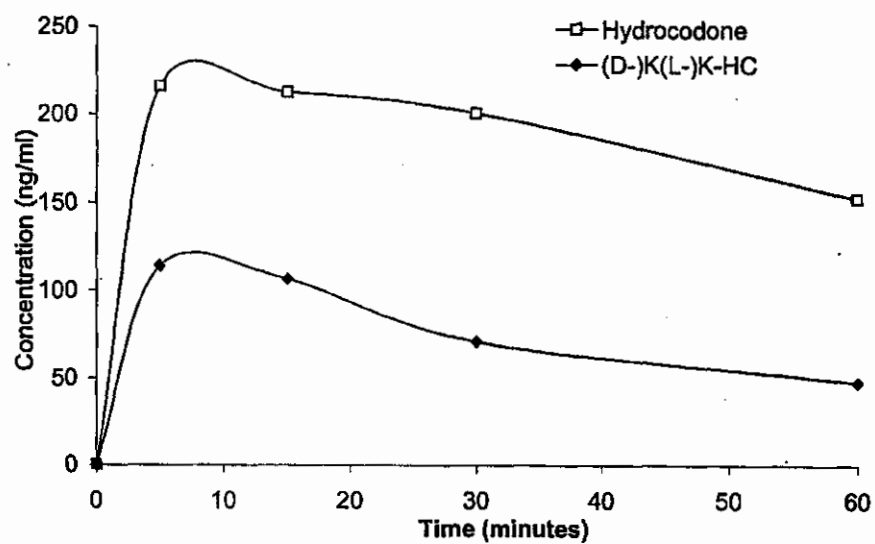


Figure 80

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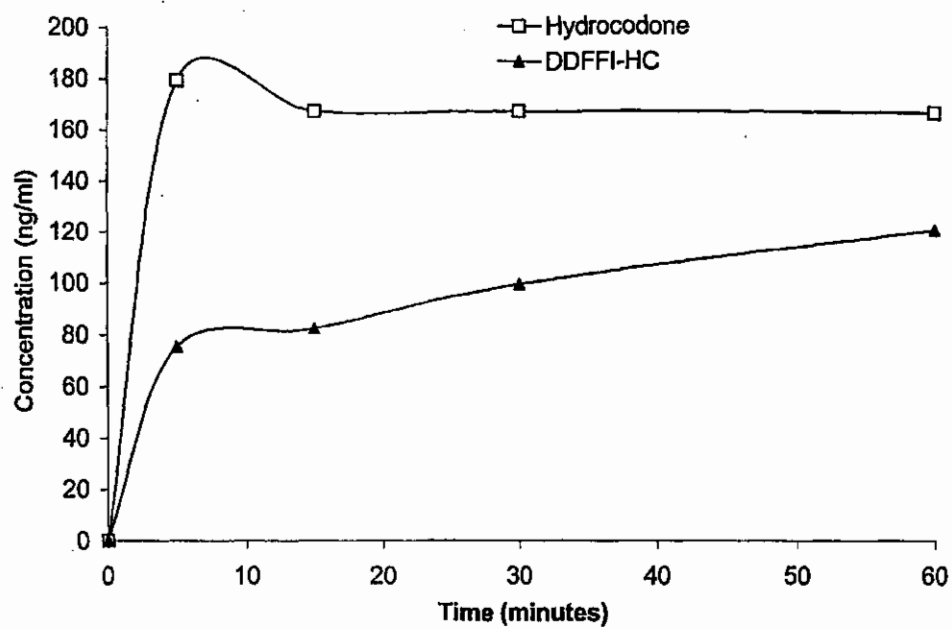


Figure 81

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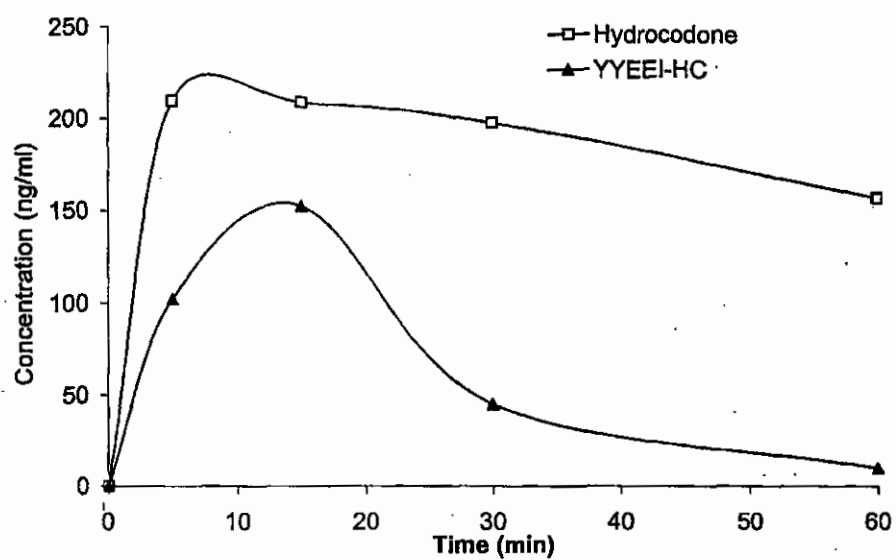


Figure 82

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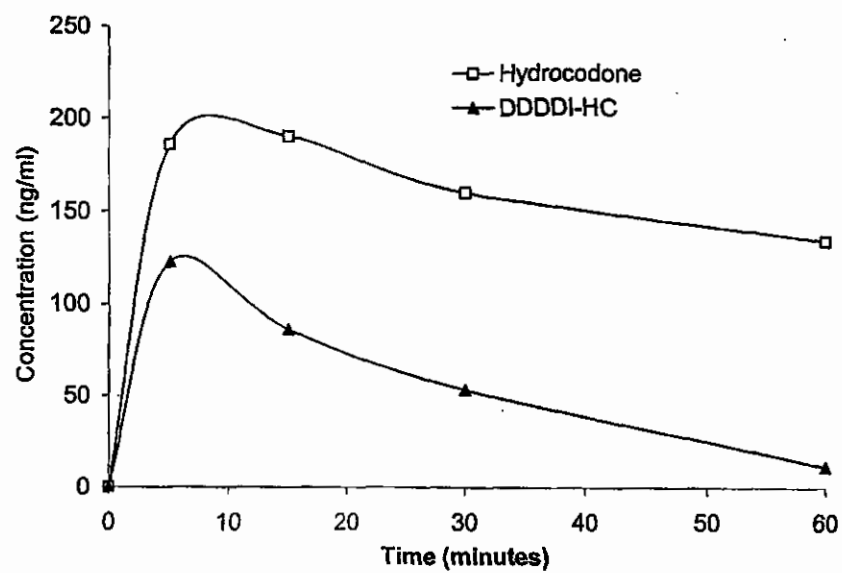


Figure 83

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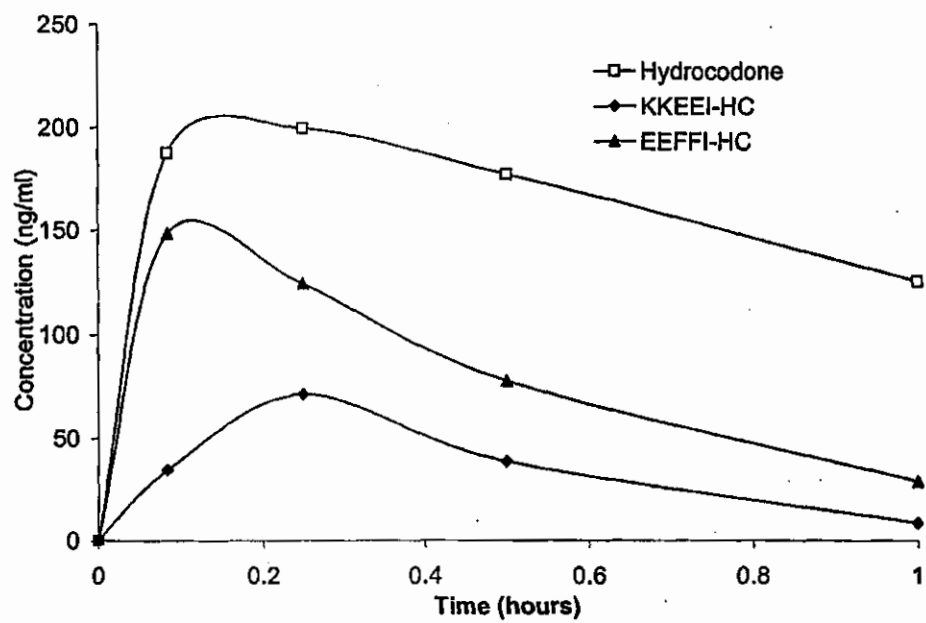


Figure 84

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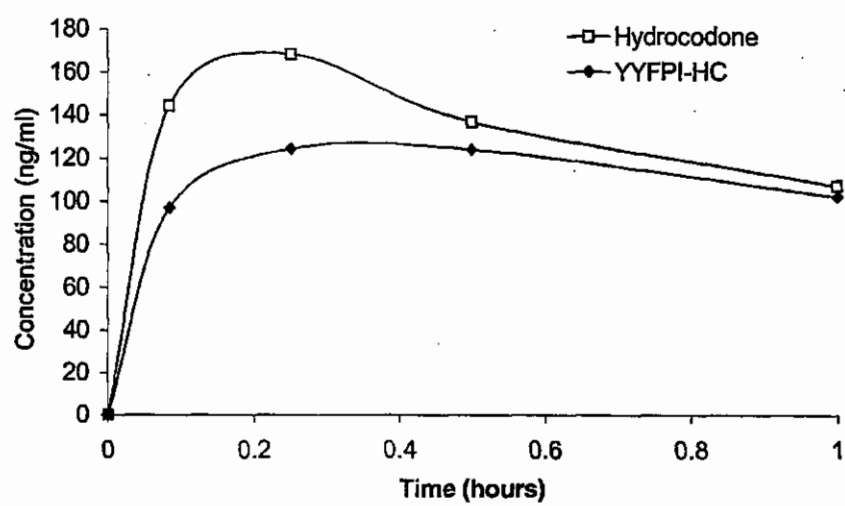
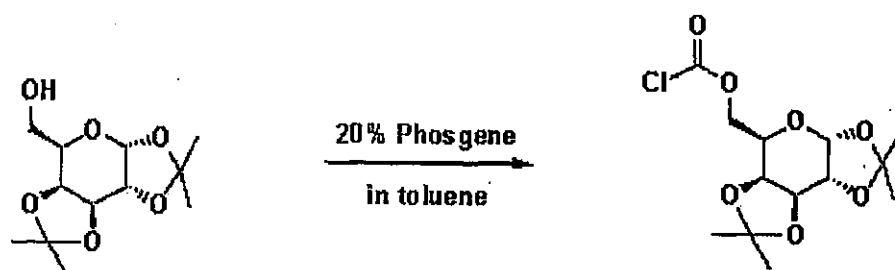


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Figure 86



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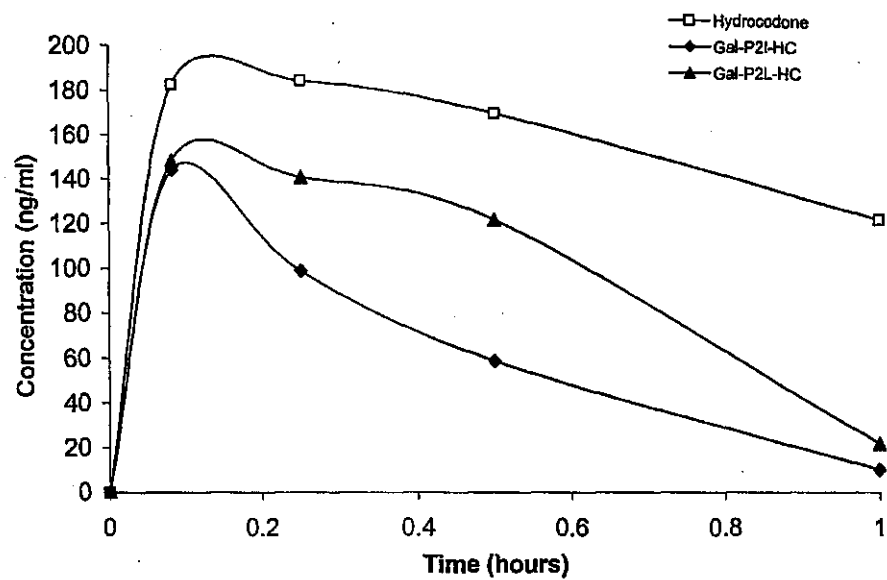


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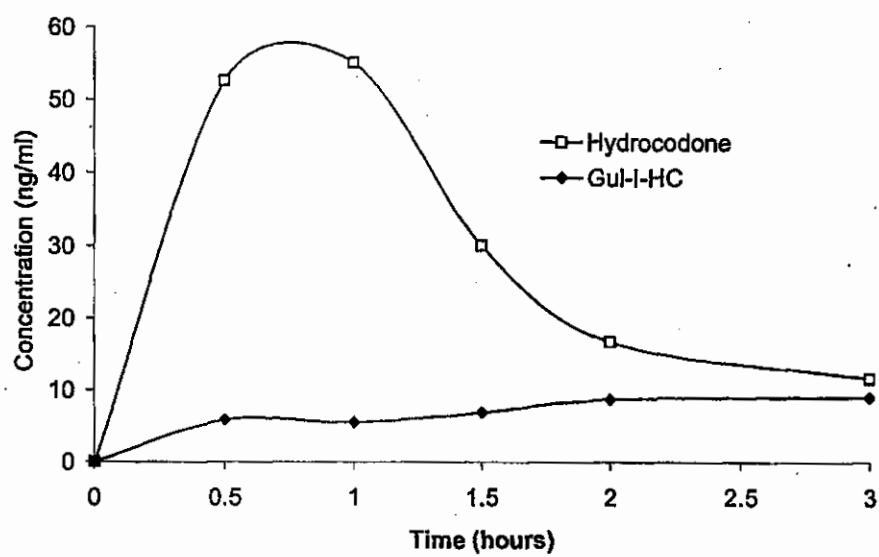
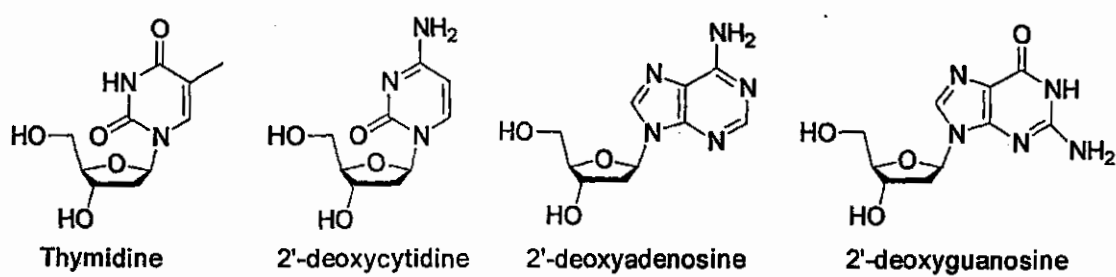


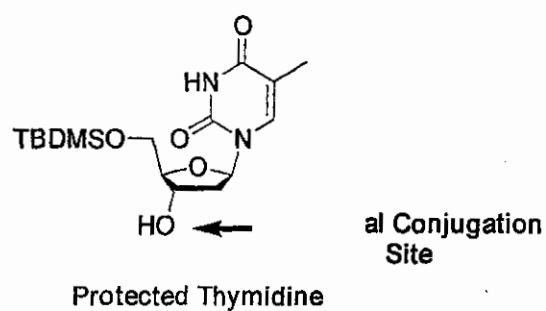
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Figure 89



Representative Nucleosides



Site of Conjugation for Hydrocodone

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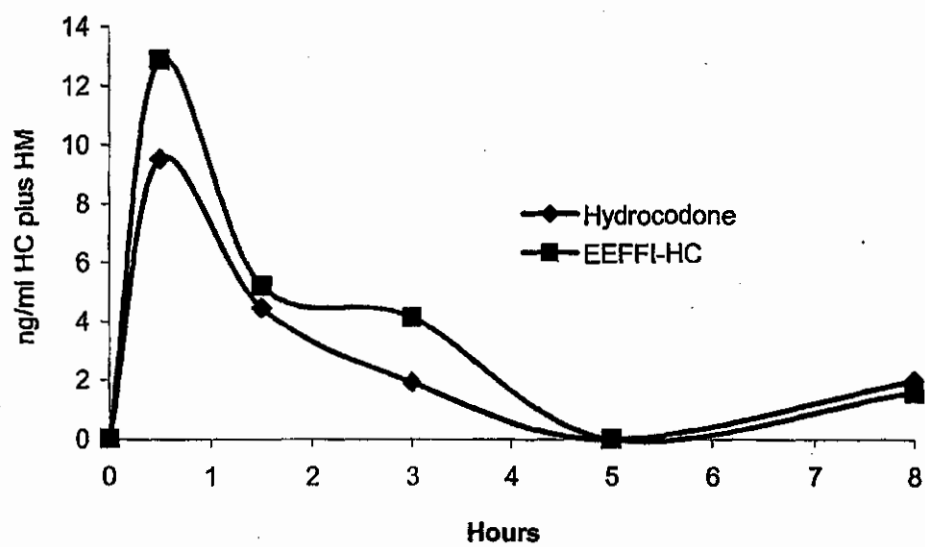


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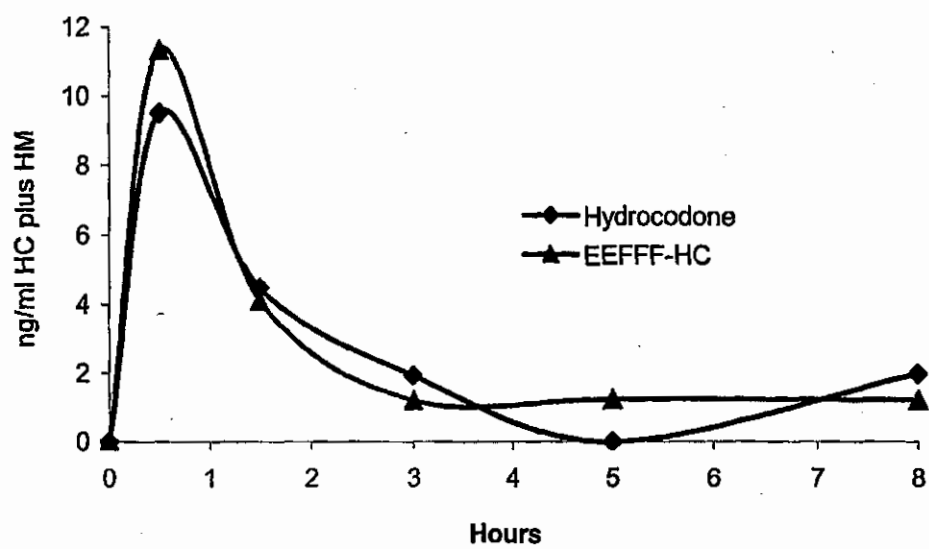


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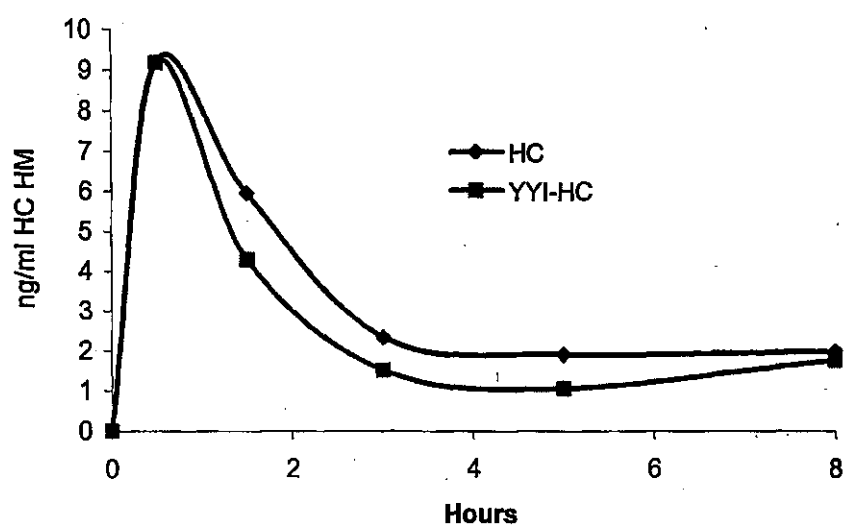


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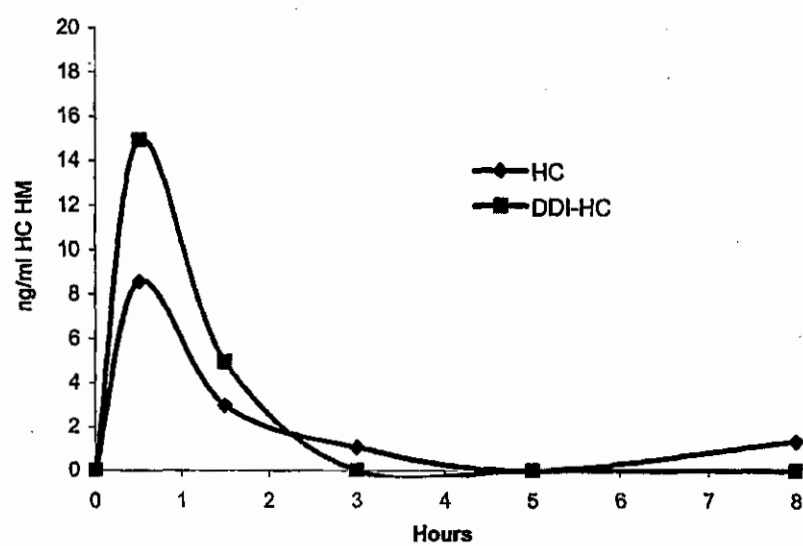


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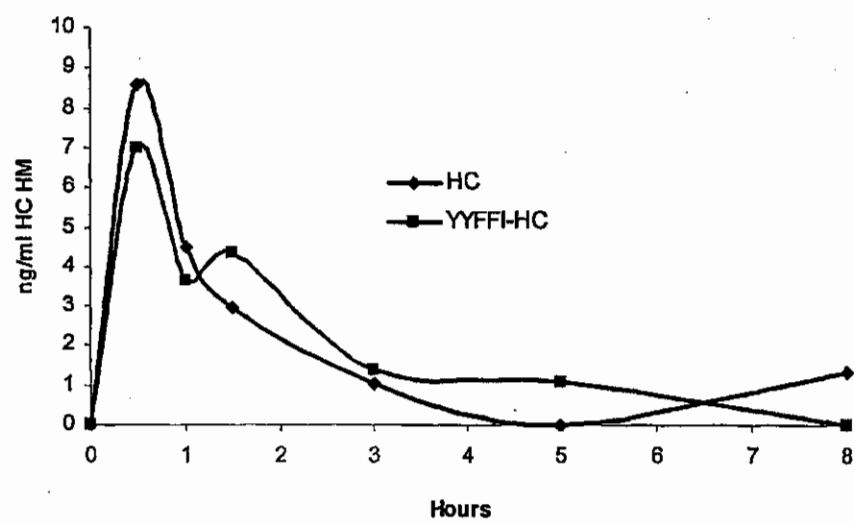


Figure 94

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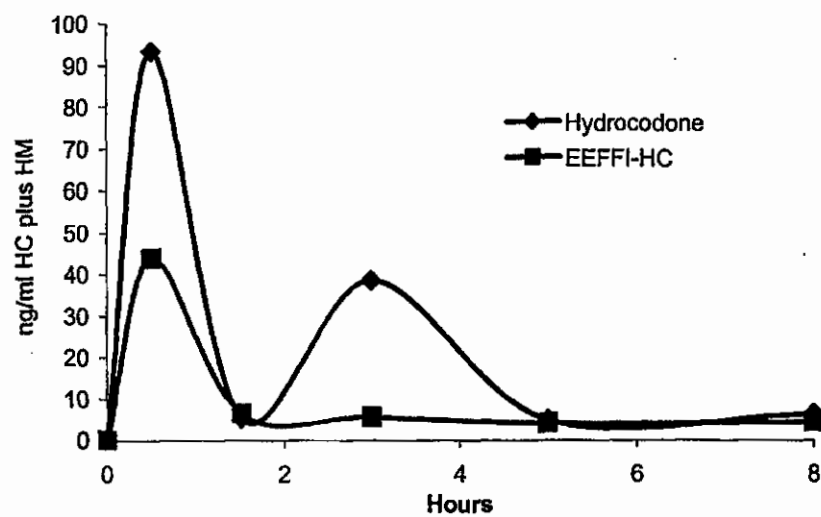


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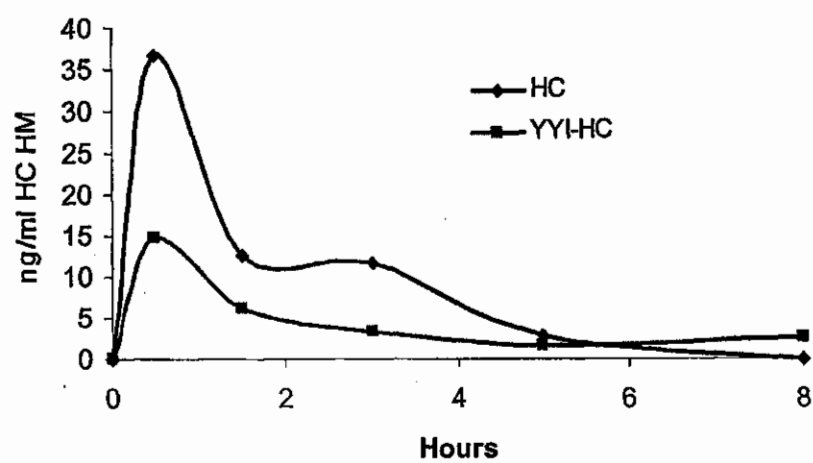


Figure 96

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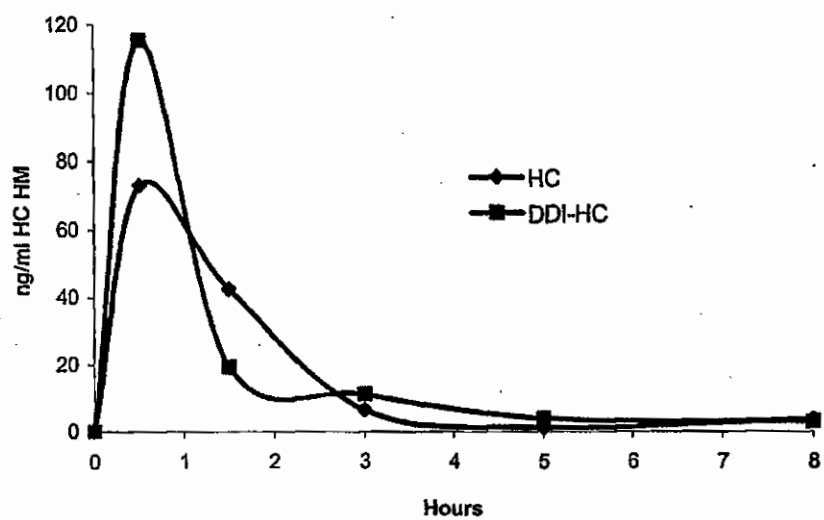


Figure 97

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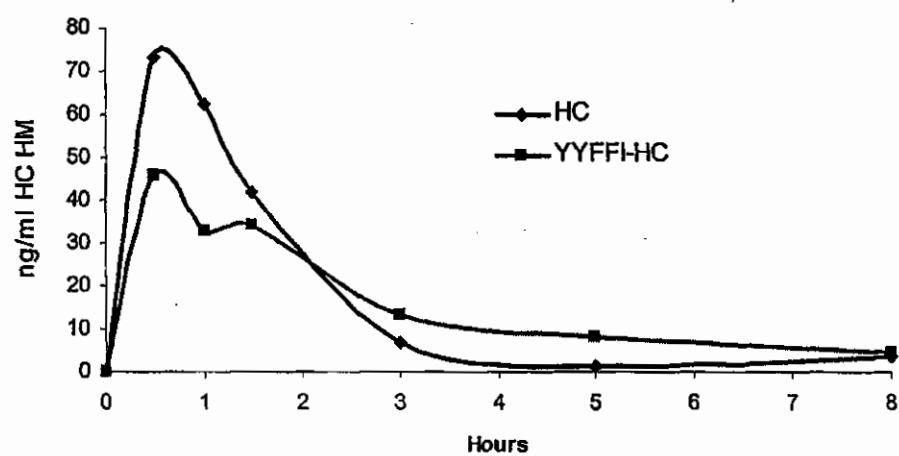


Figure 98

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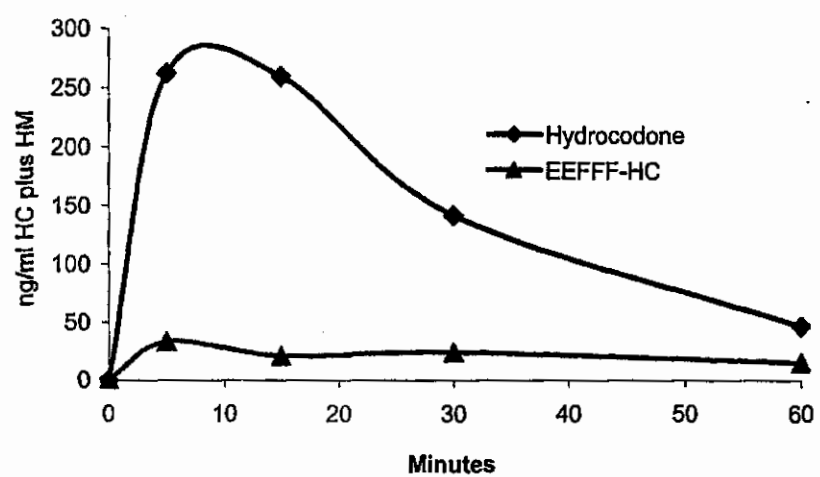


Figure 99

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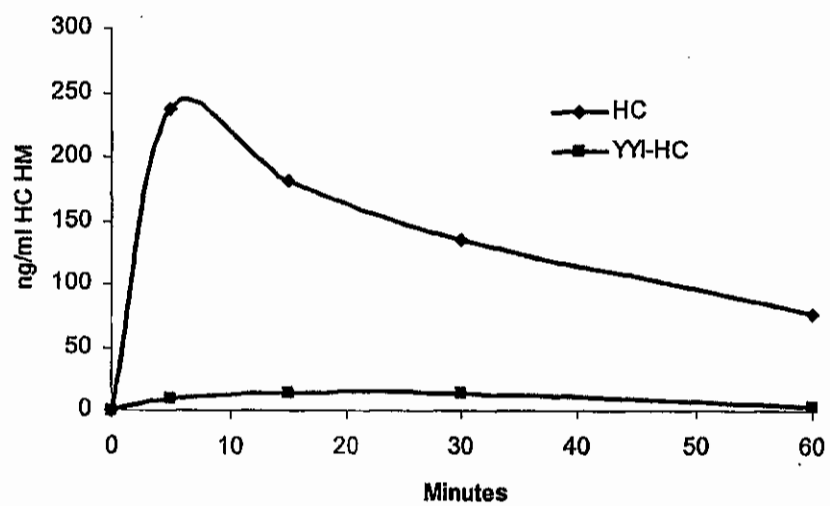


Figure 100

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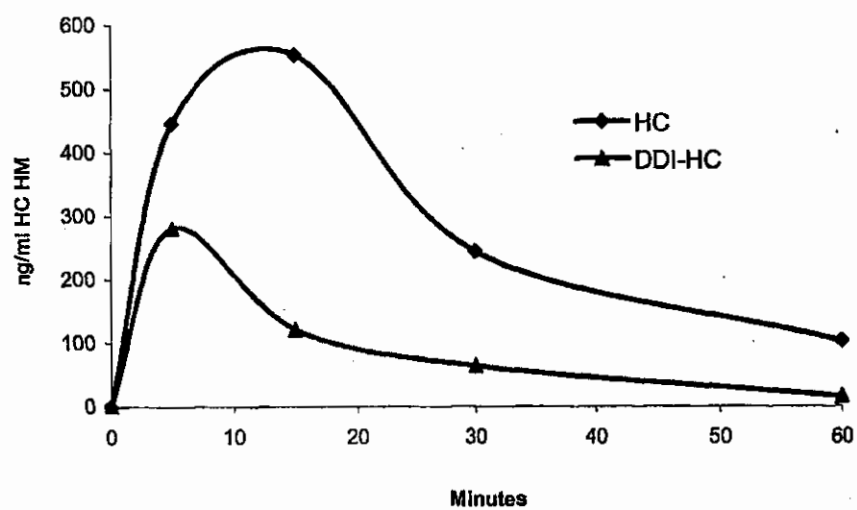


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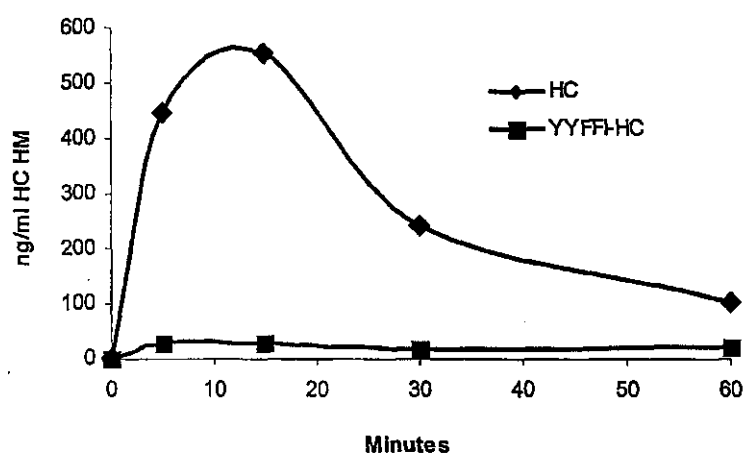


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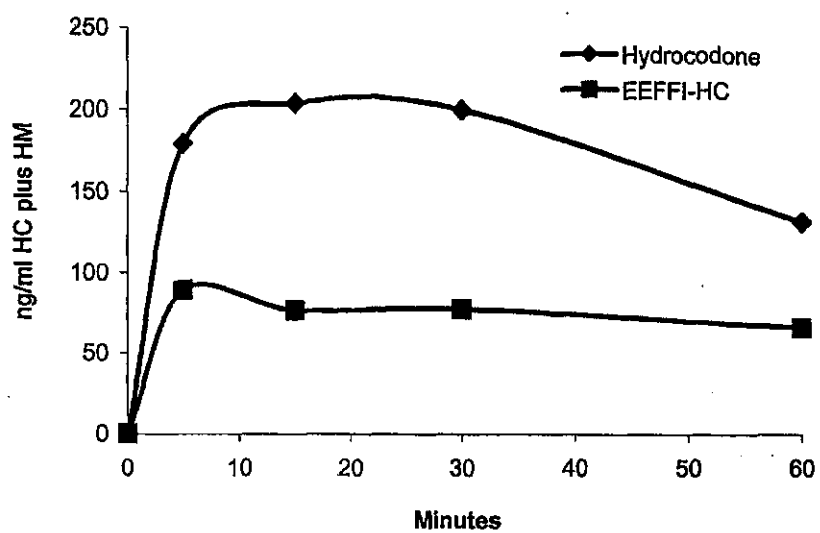


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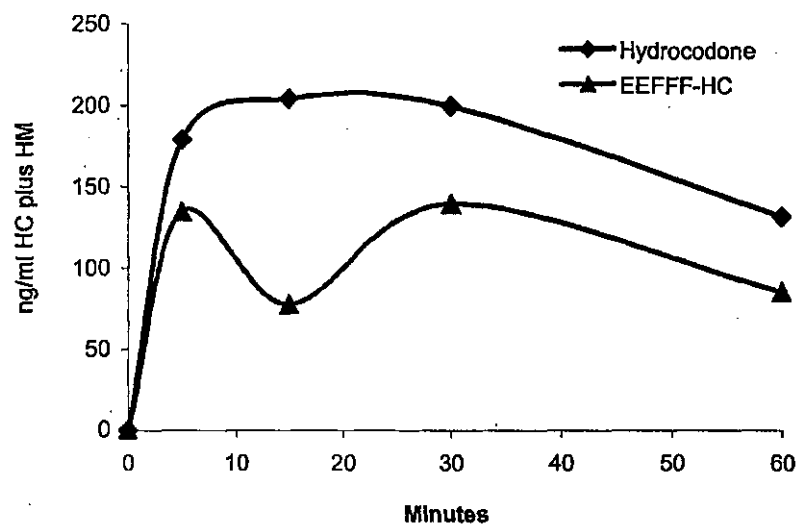


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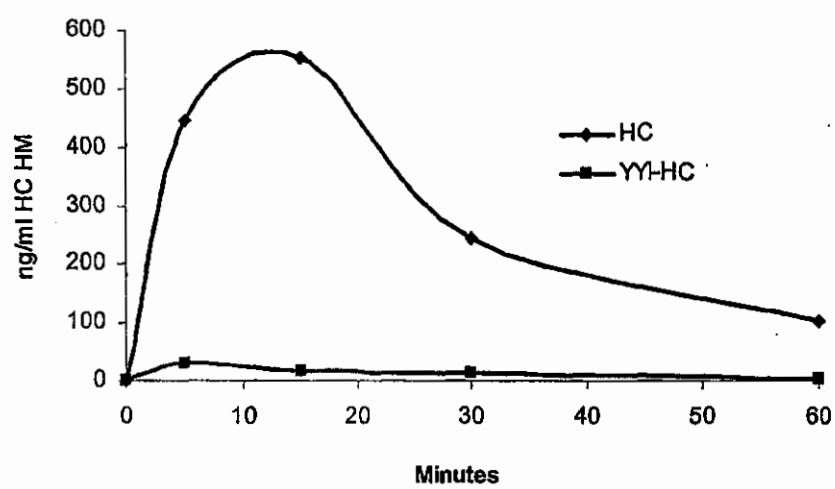


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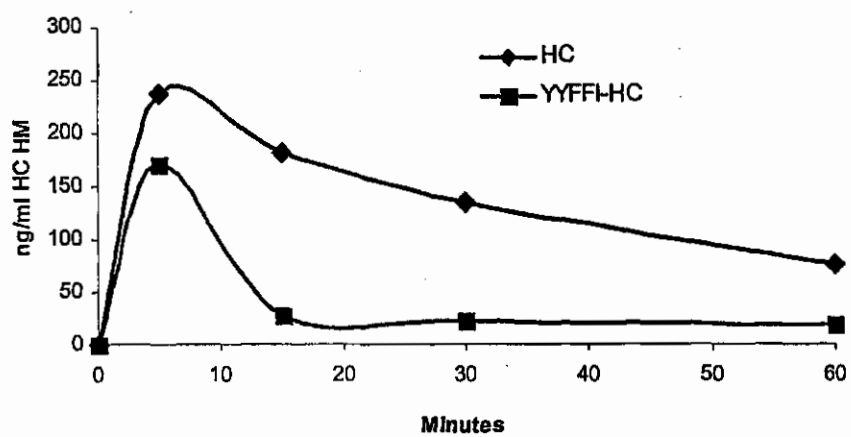


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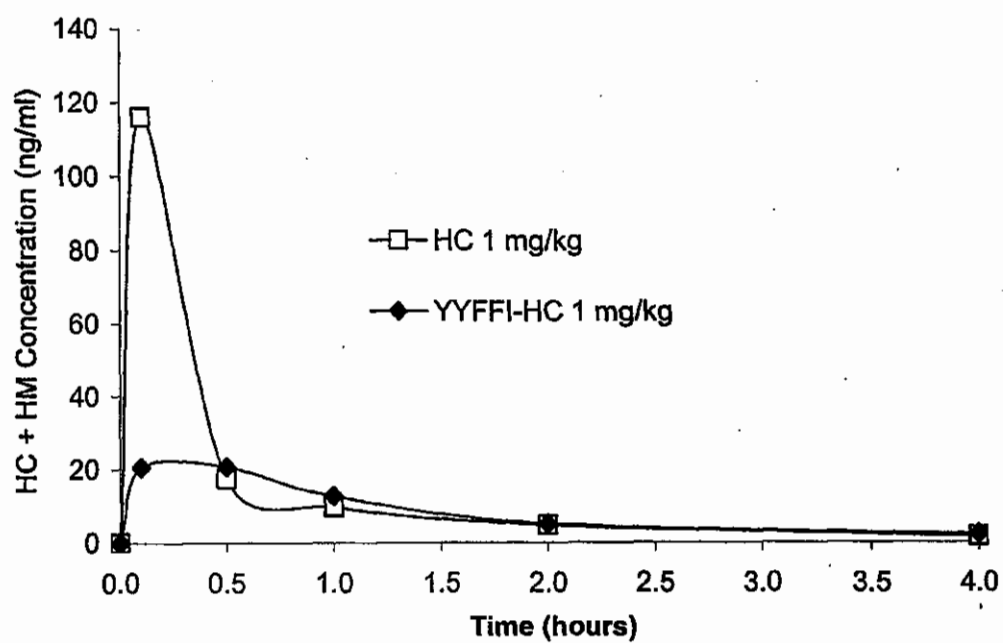


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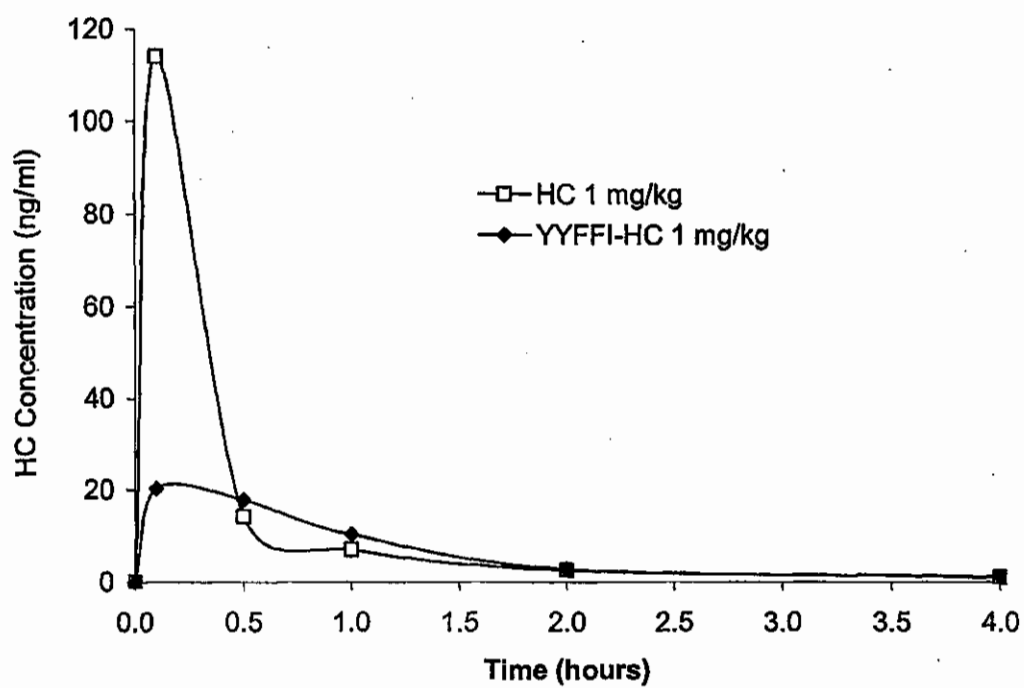


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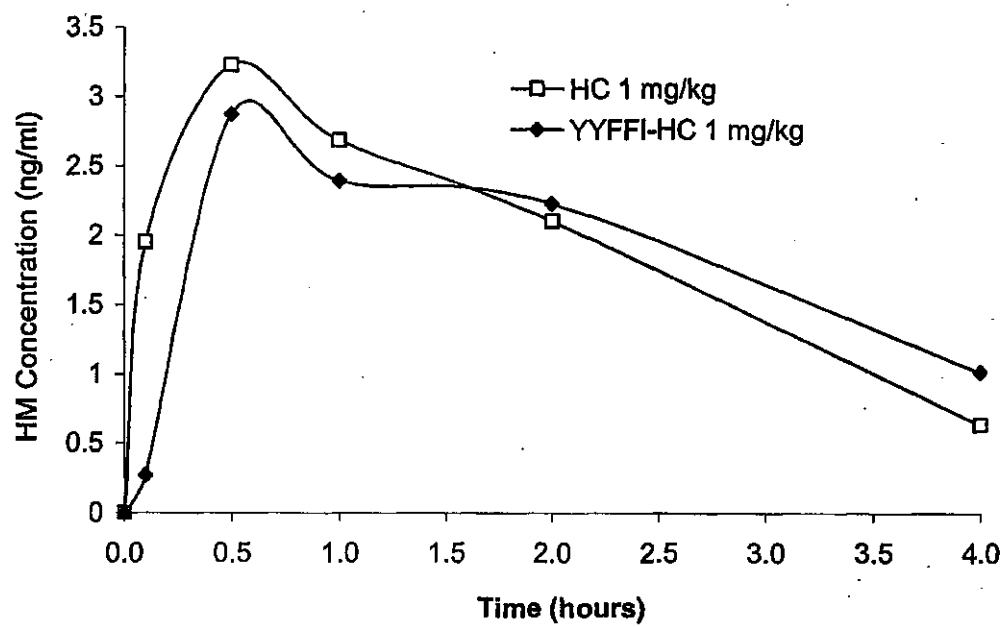


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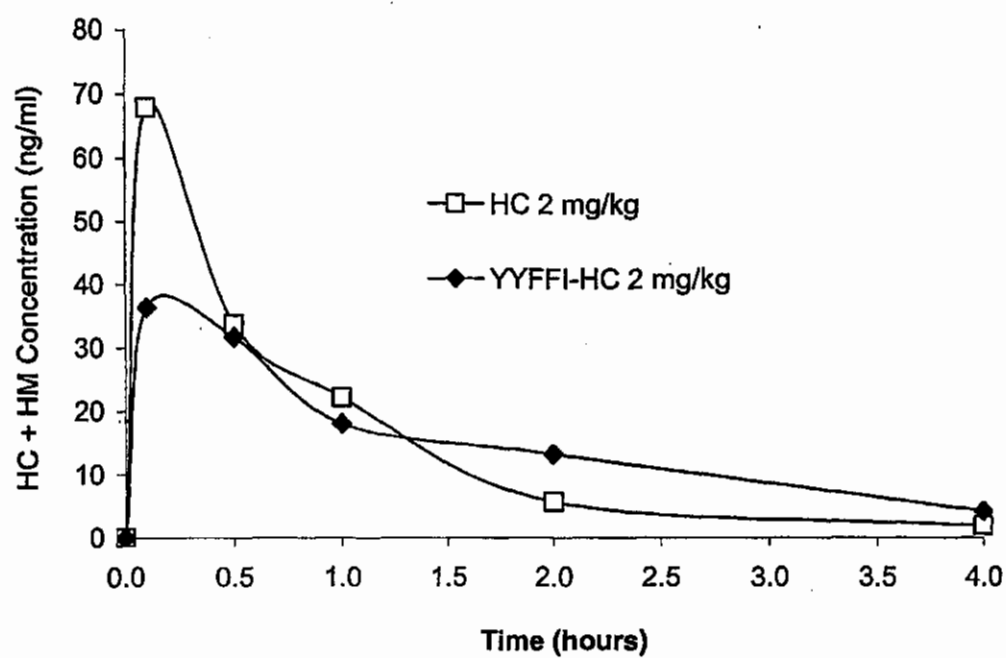


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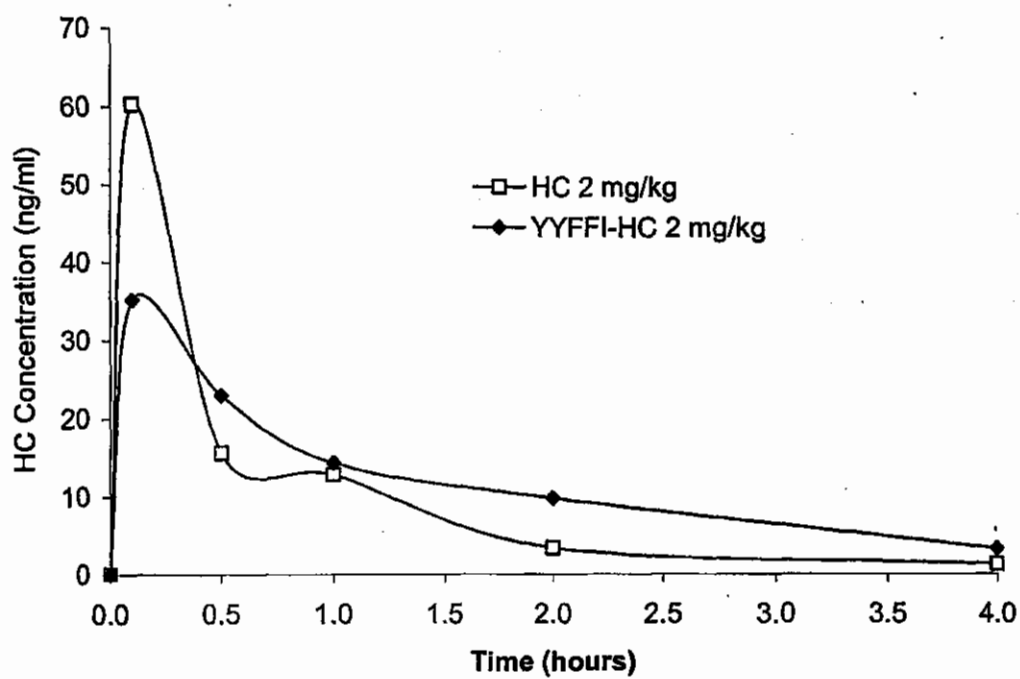


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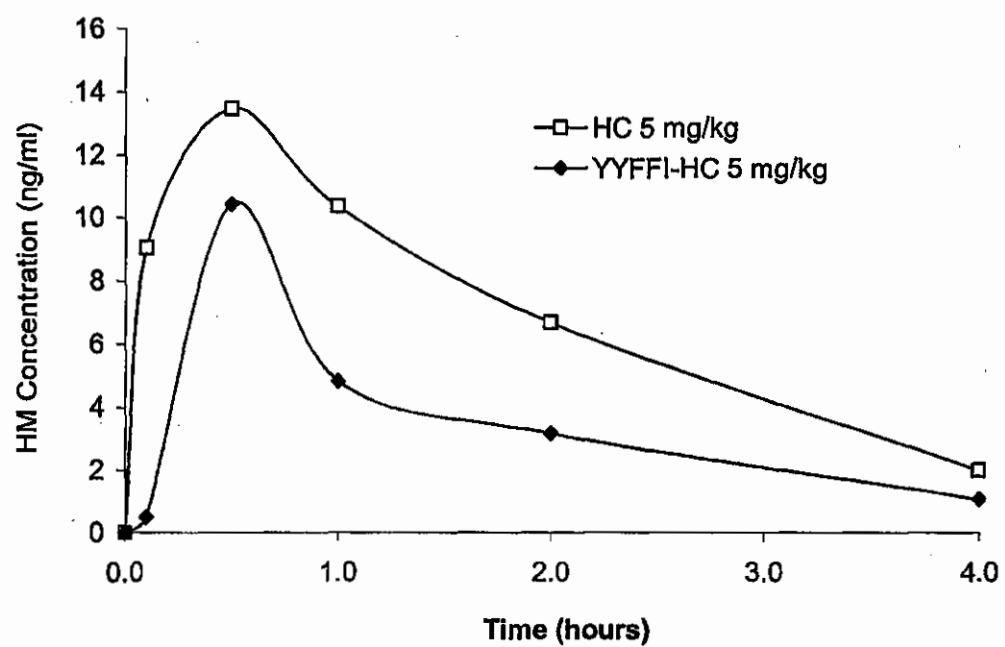


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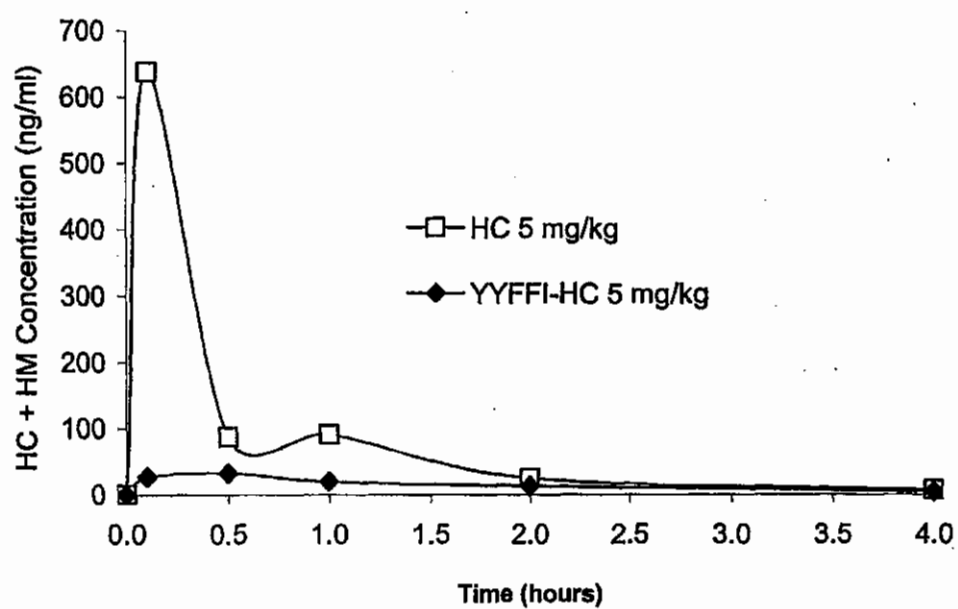


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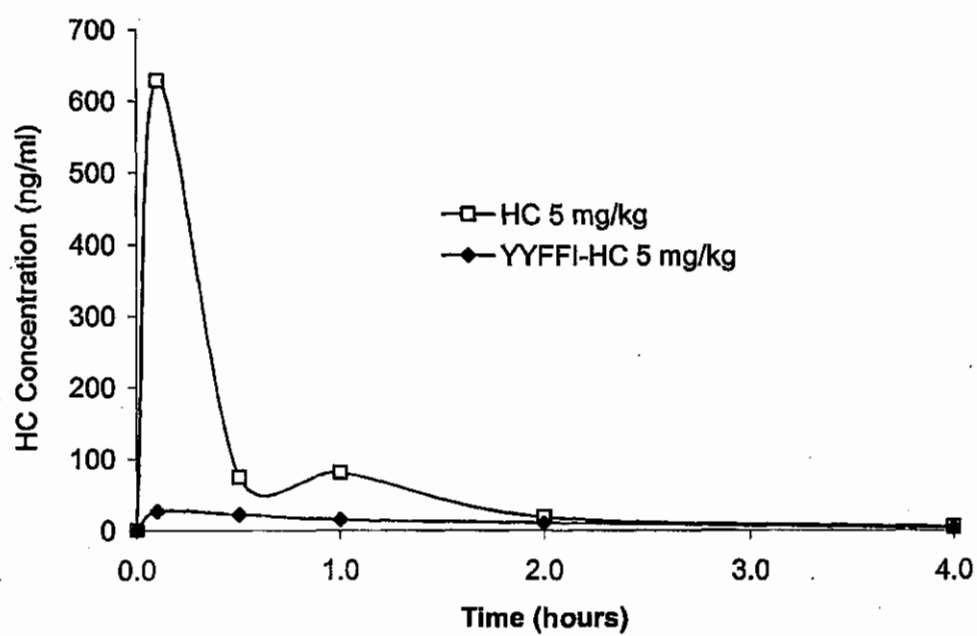


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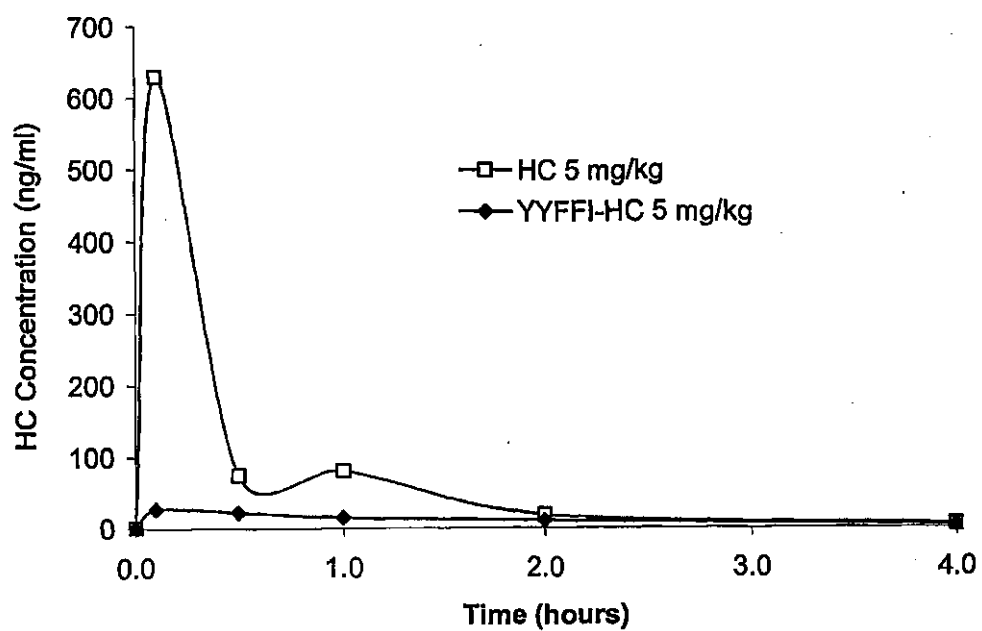


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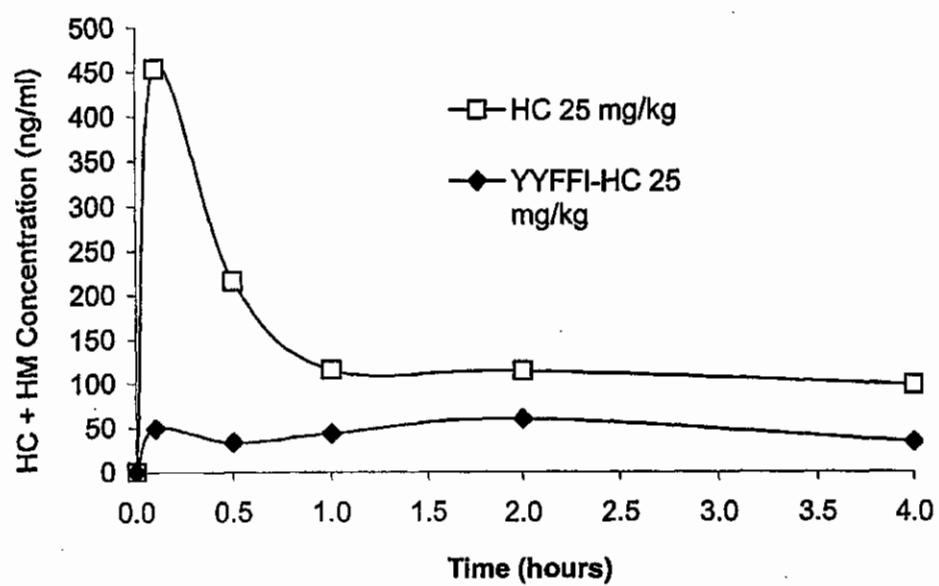


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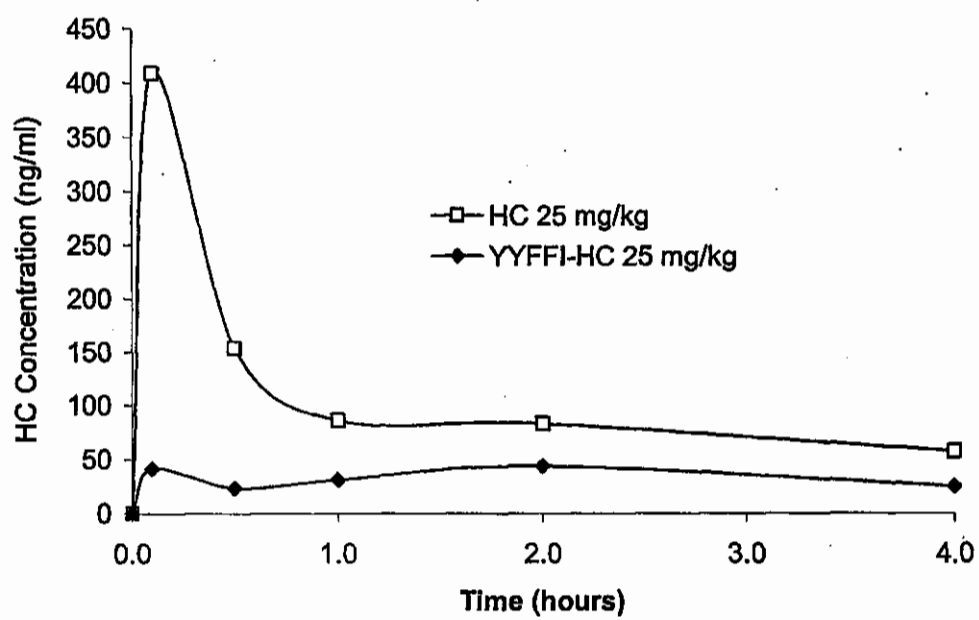


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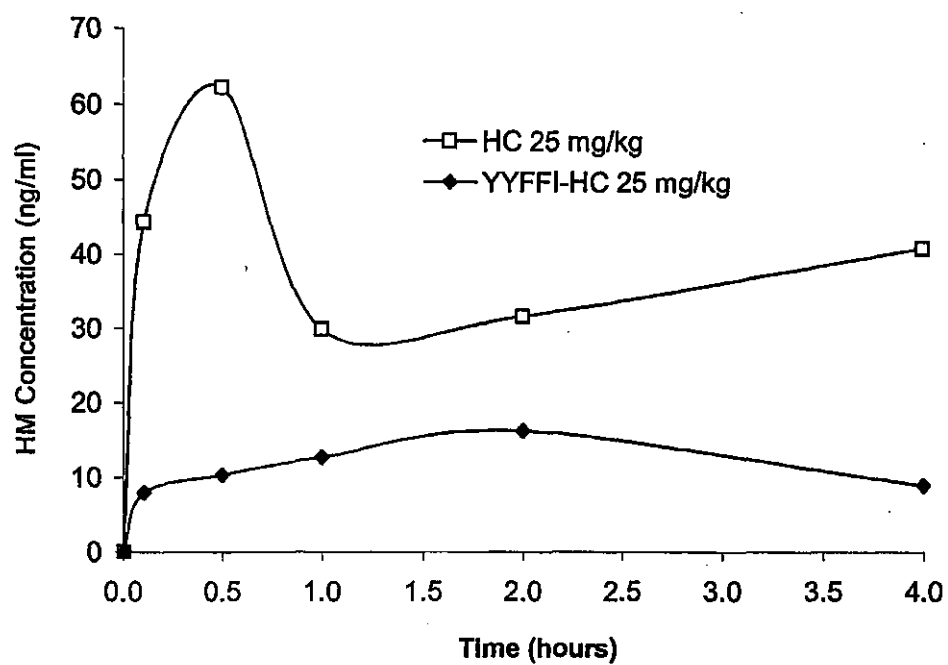


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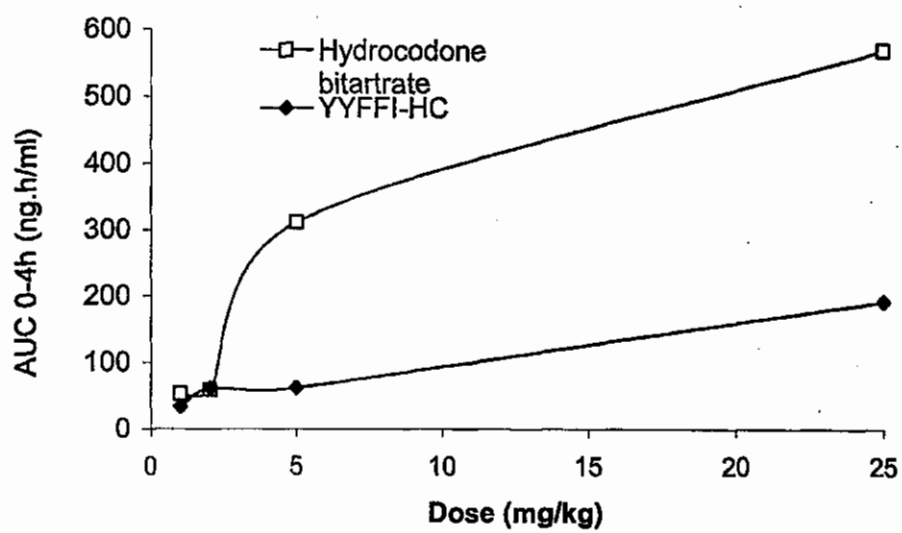


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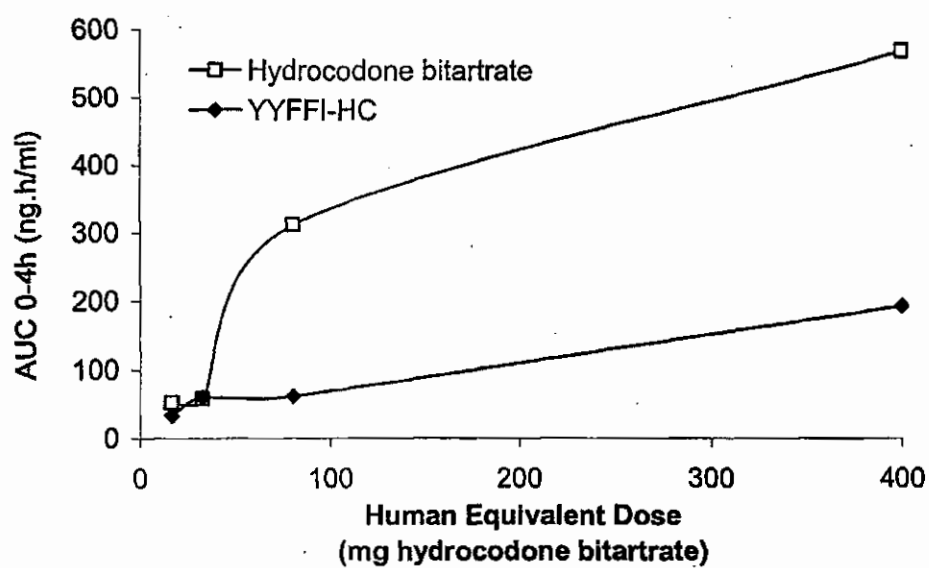


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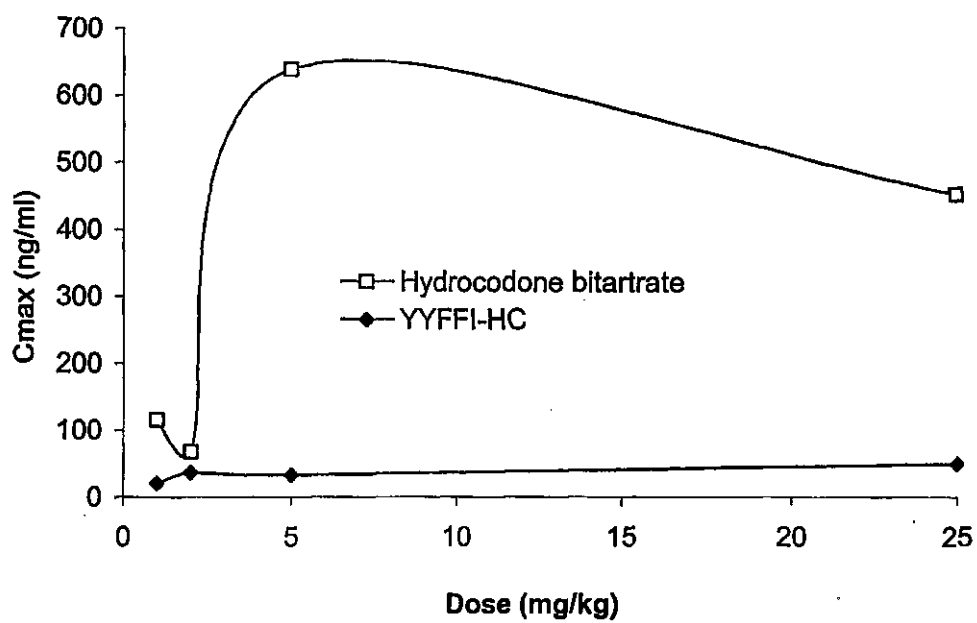


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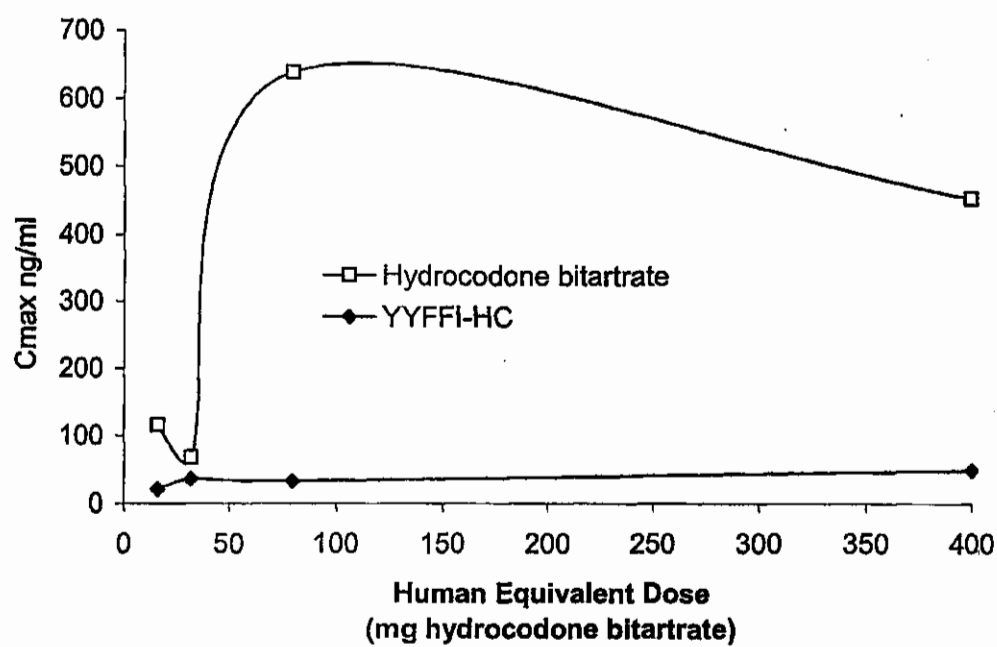


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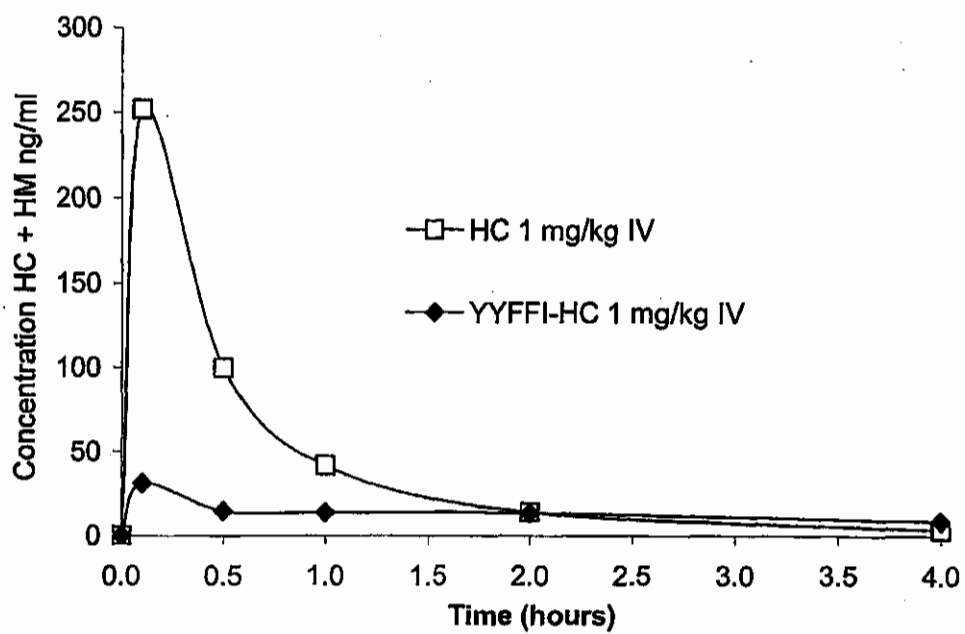


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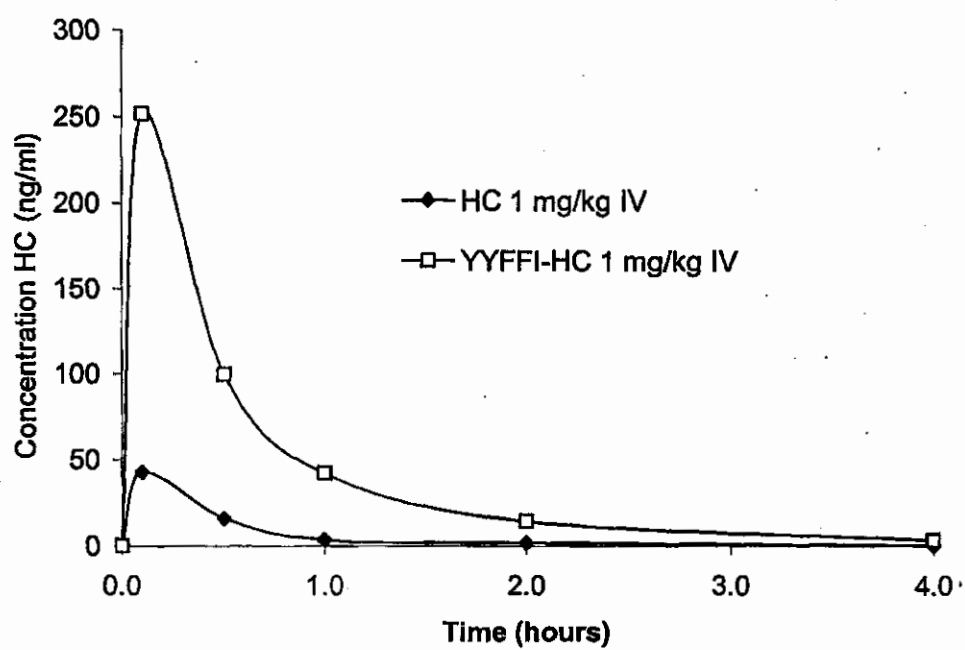


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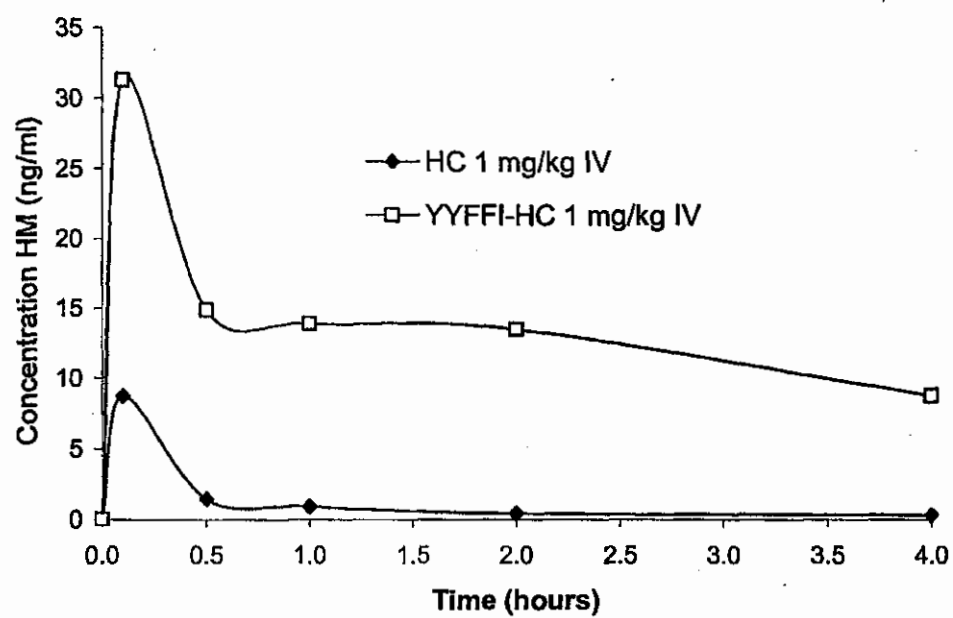


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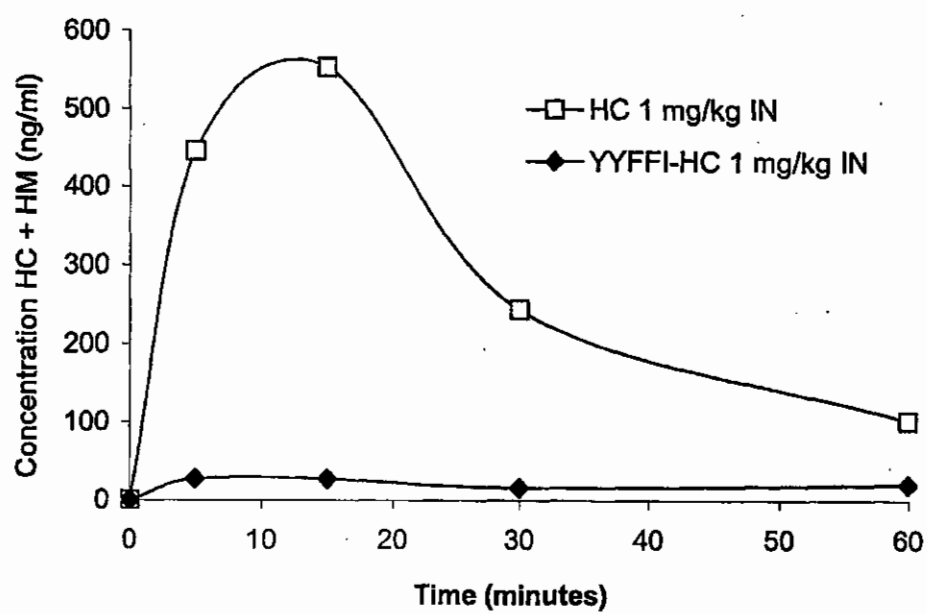


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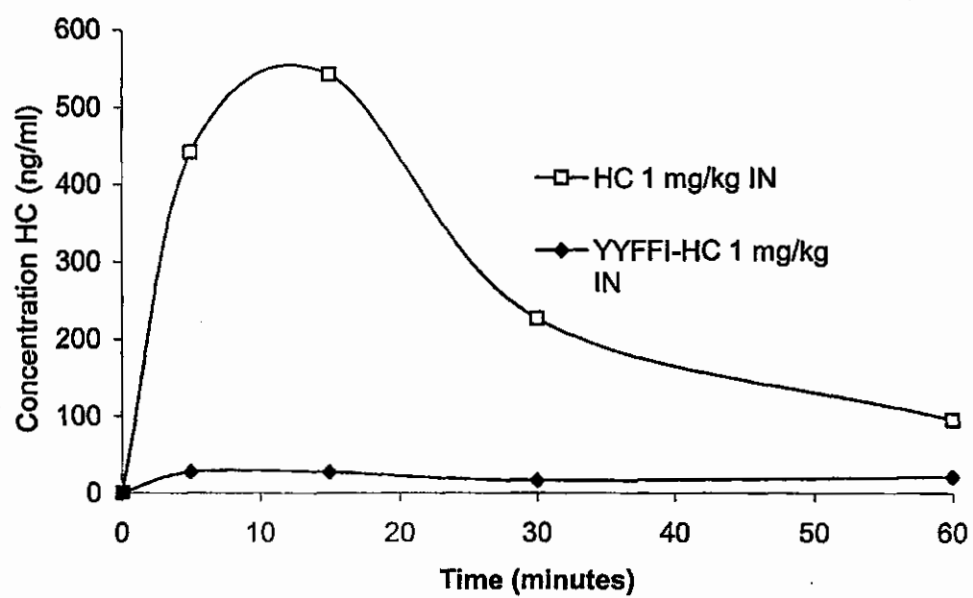


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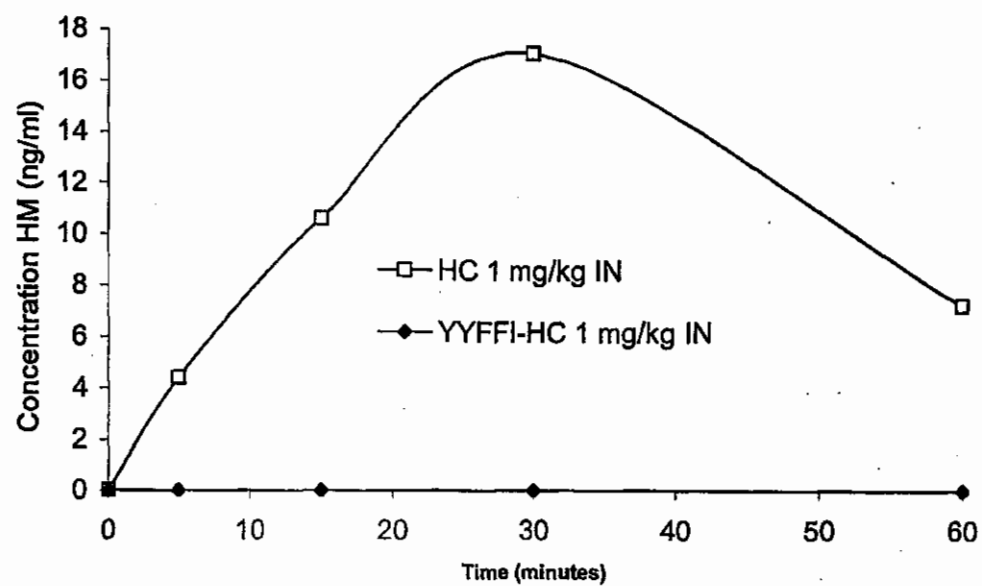


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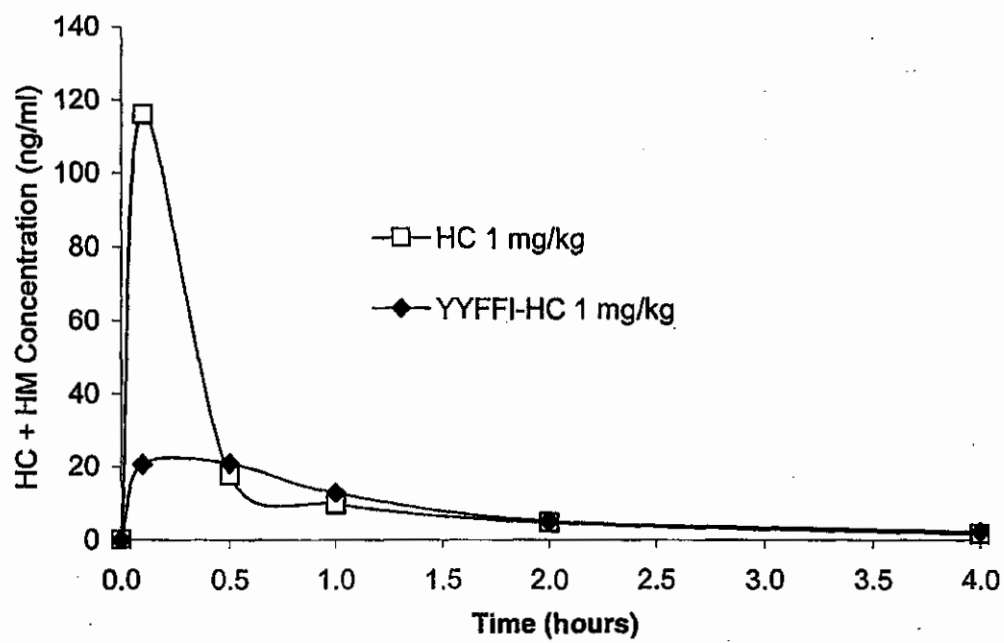


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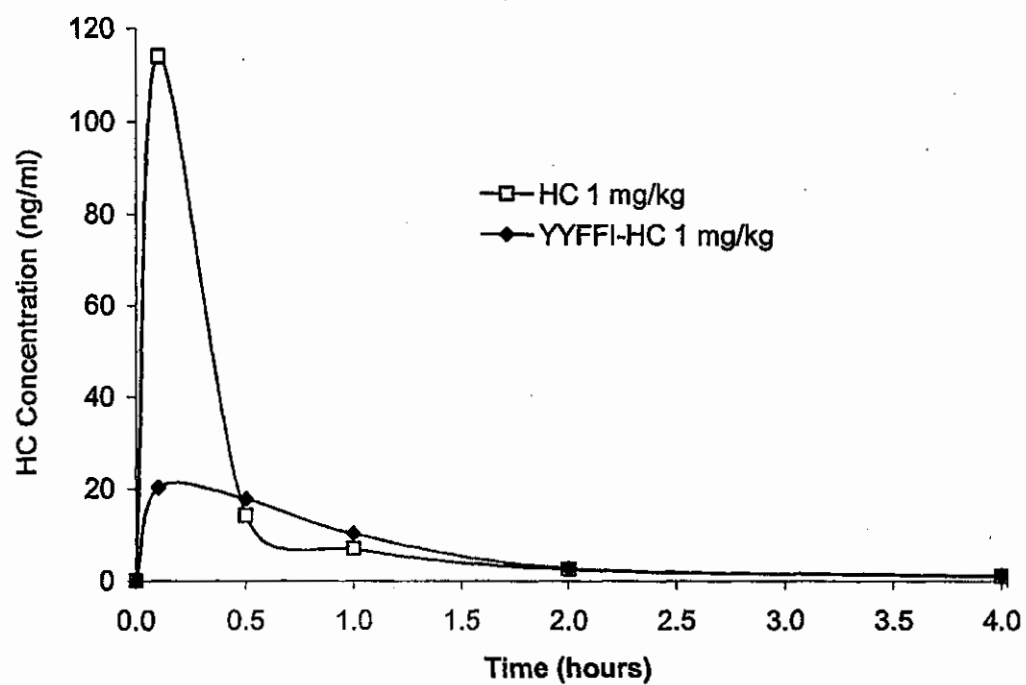


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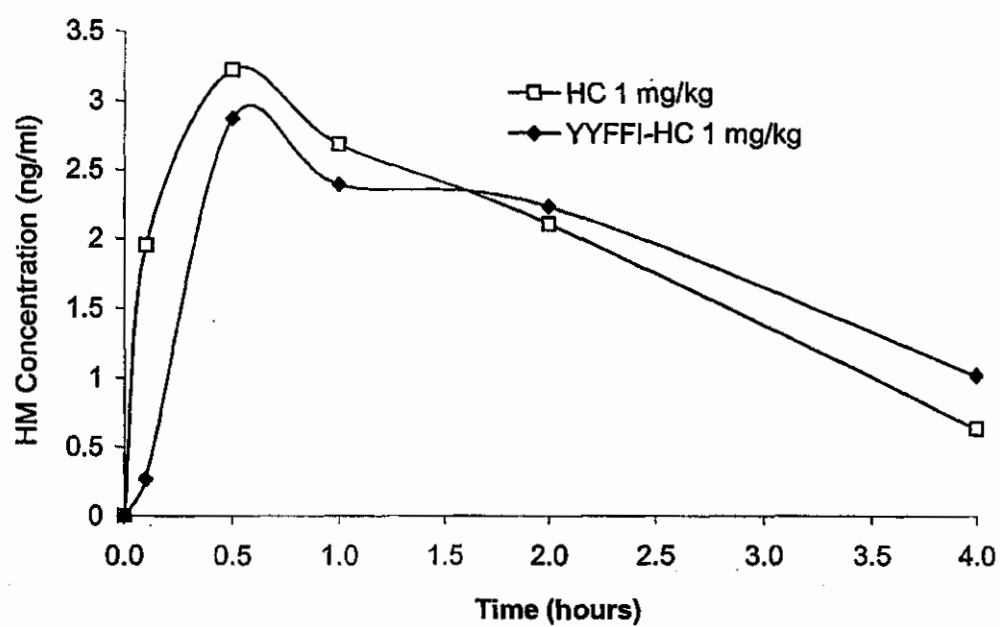


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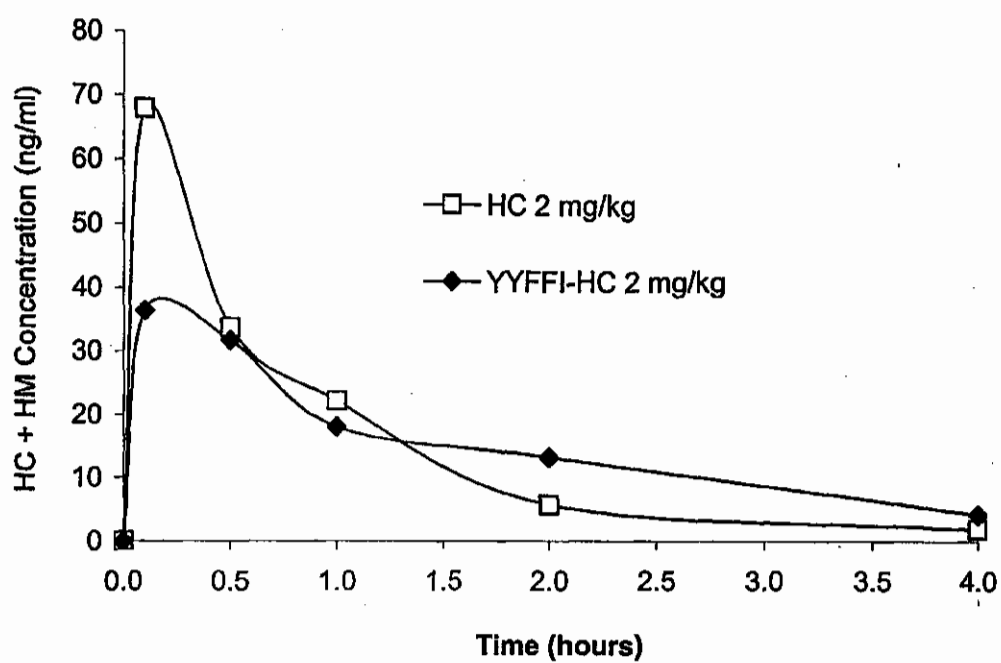


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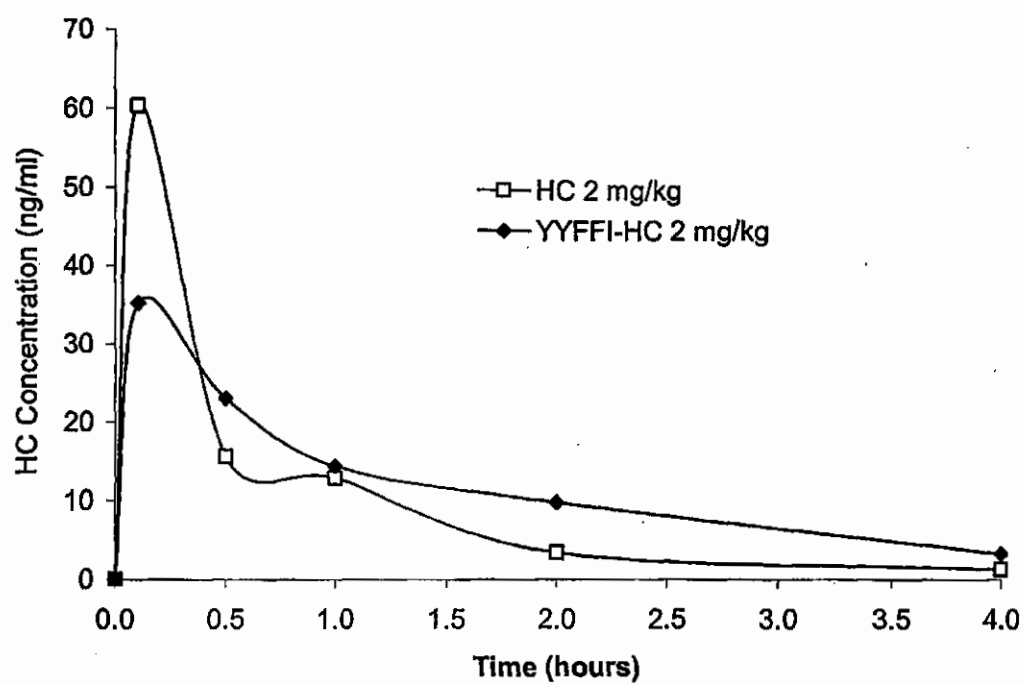


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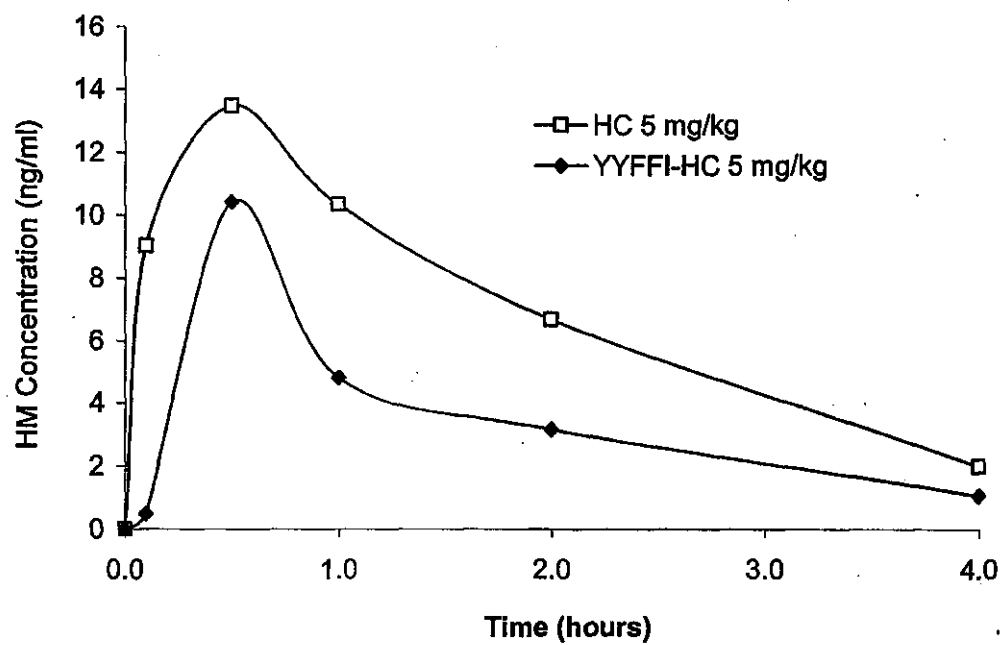


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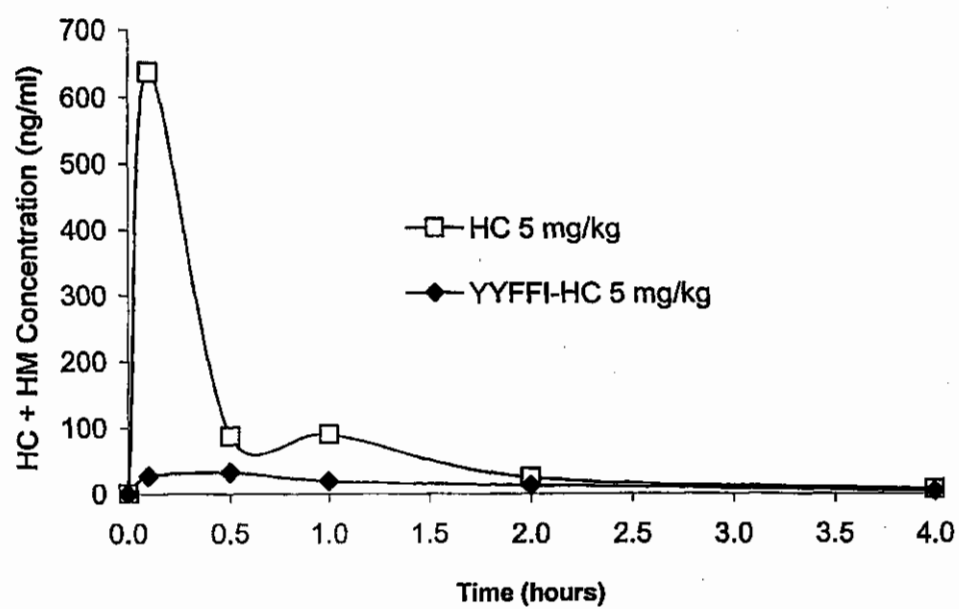


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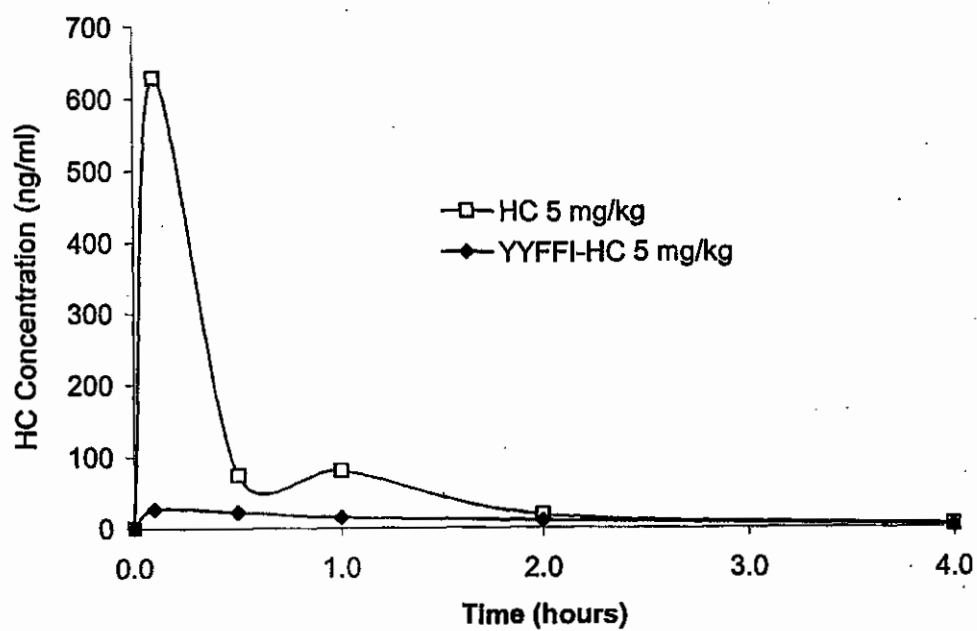


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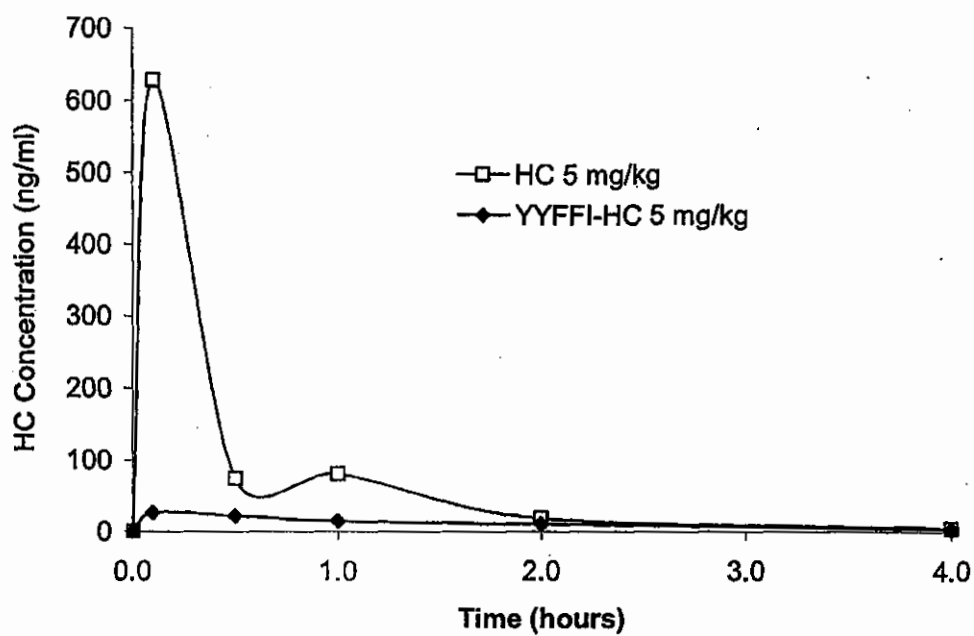


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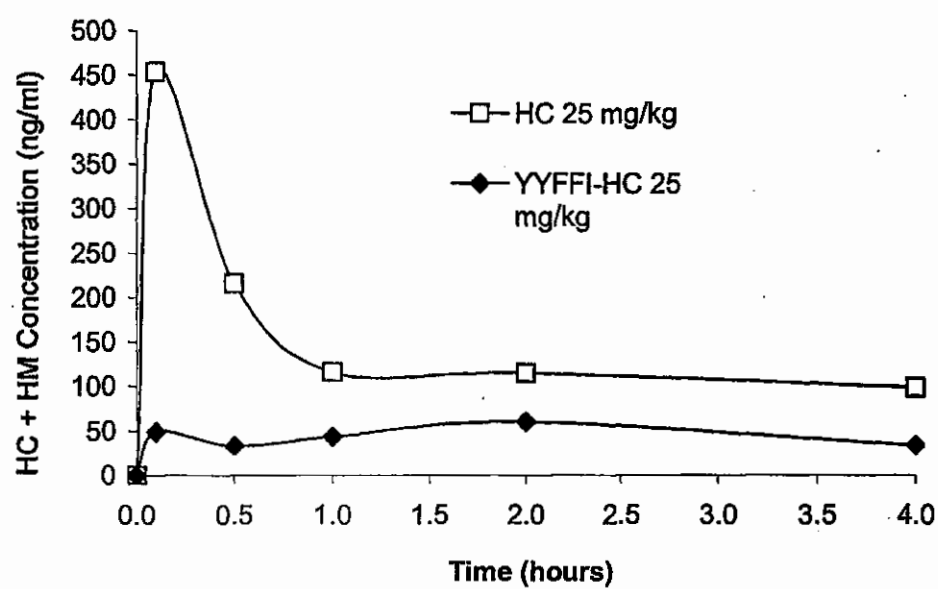


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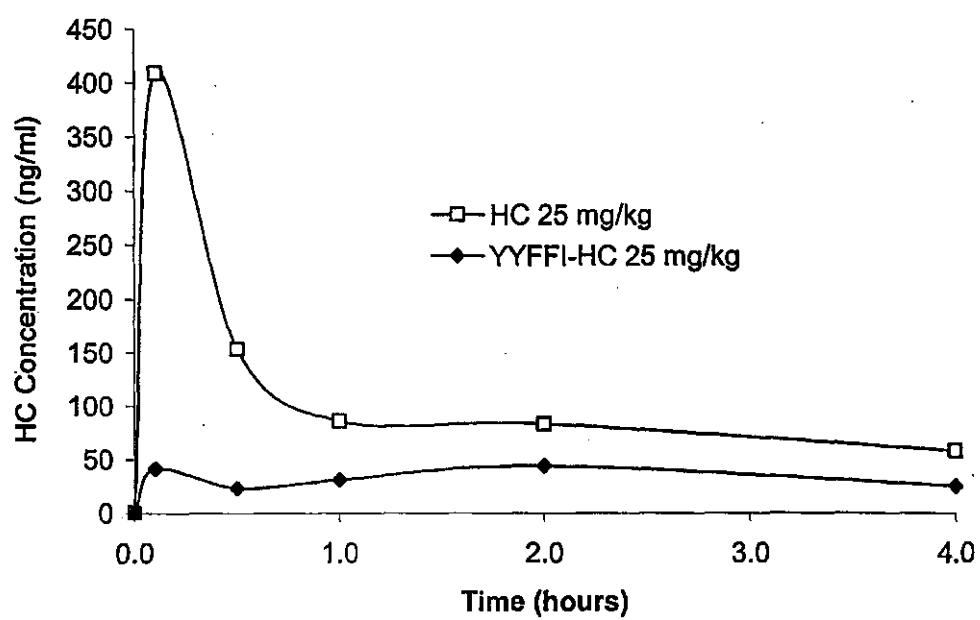


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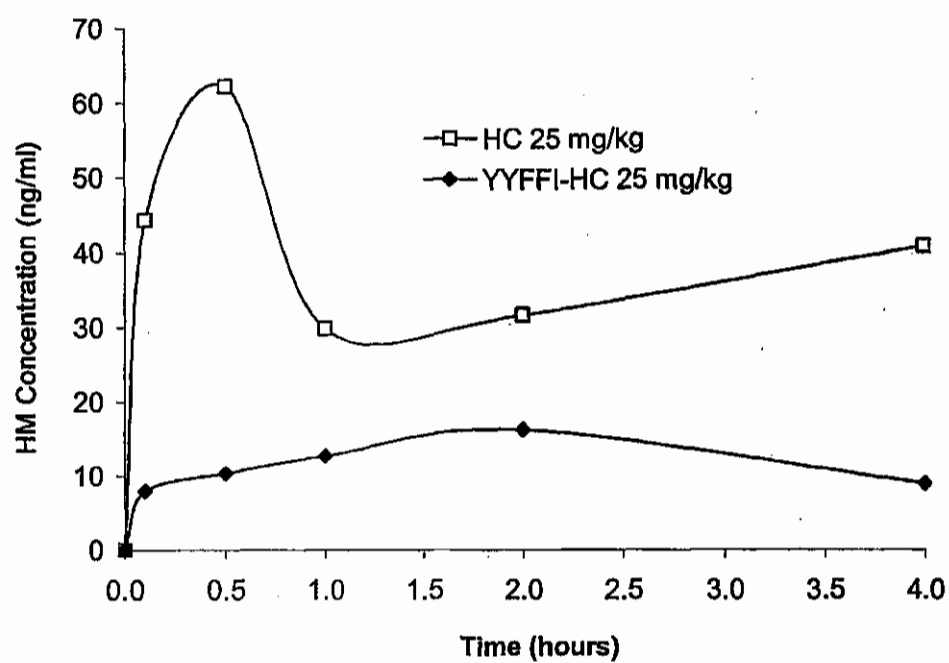


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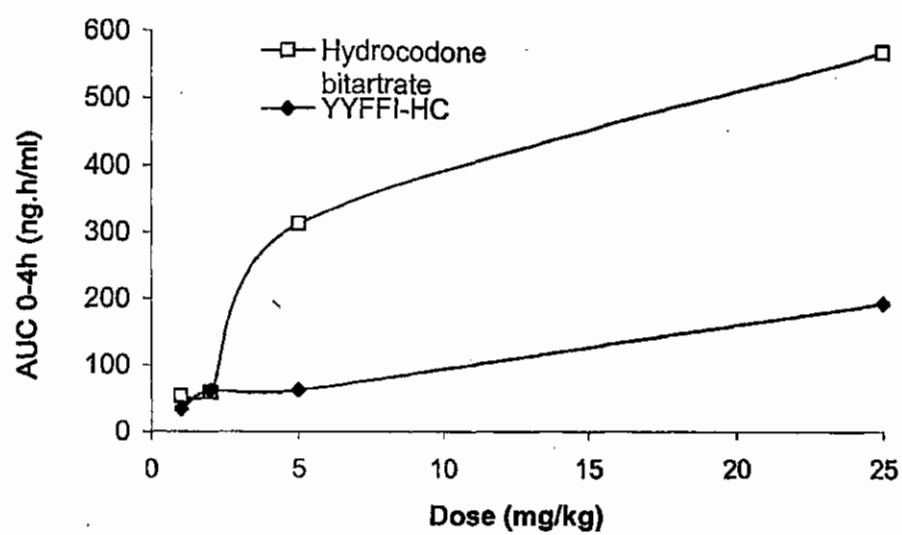


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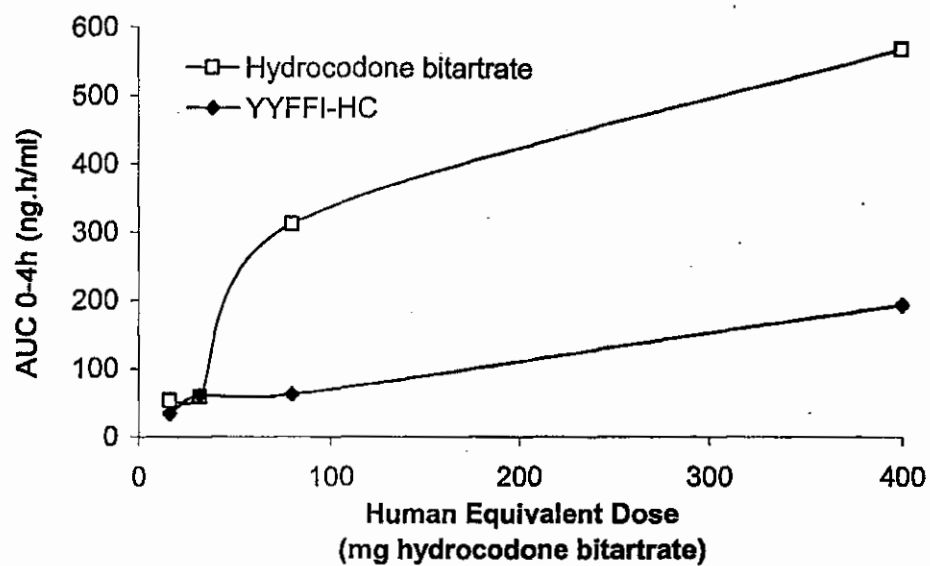


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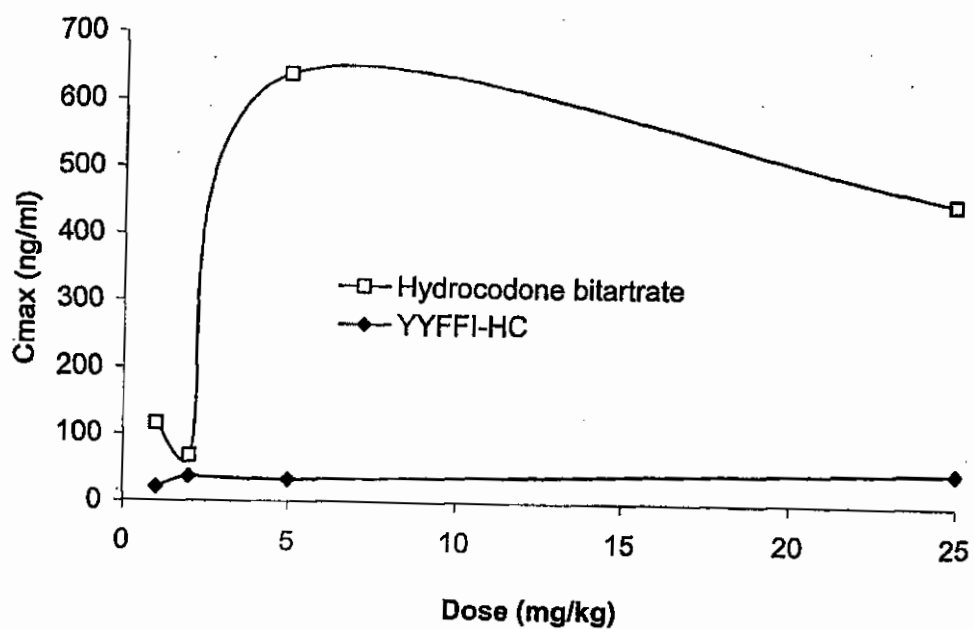


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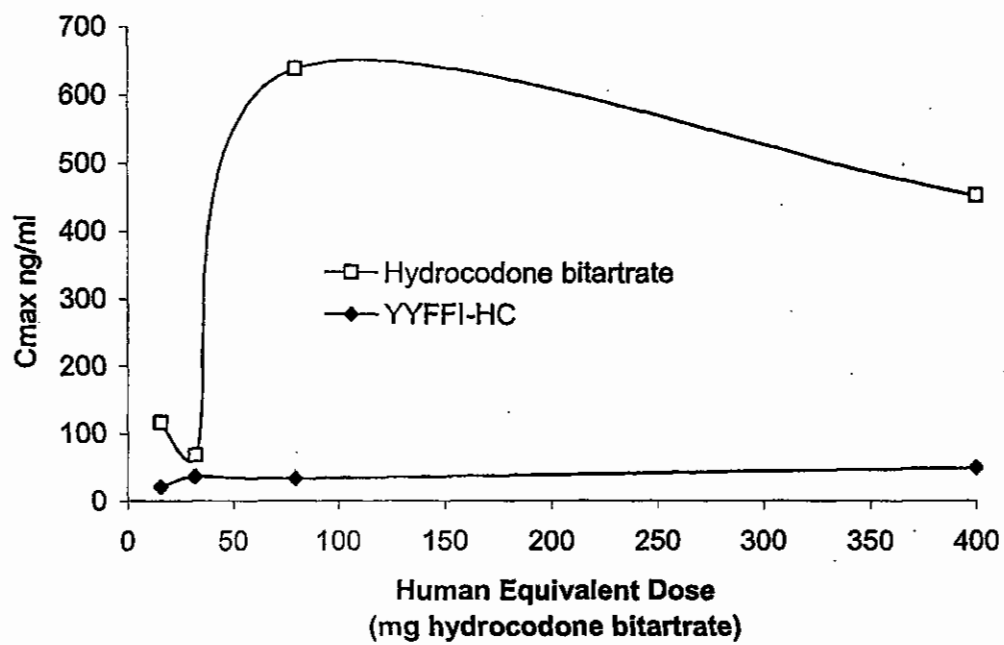


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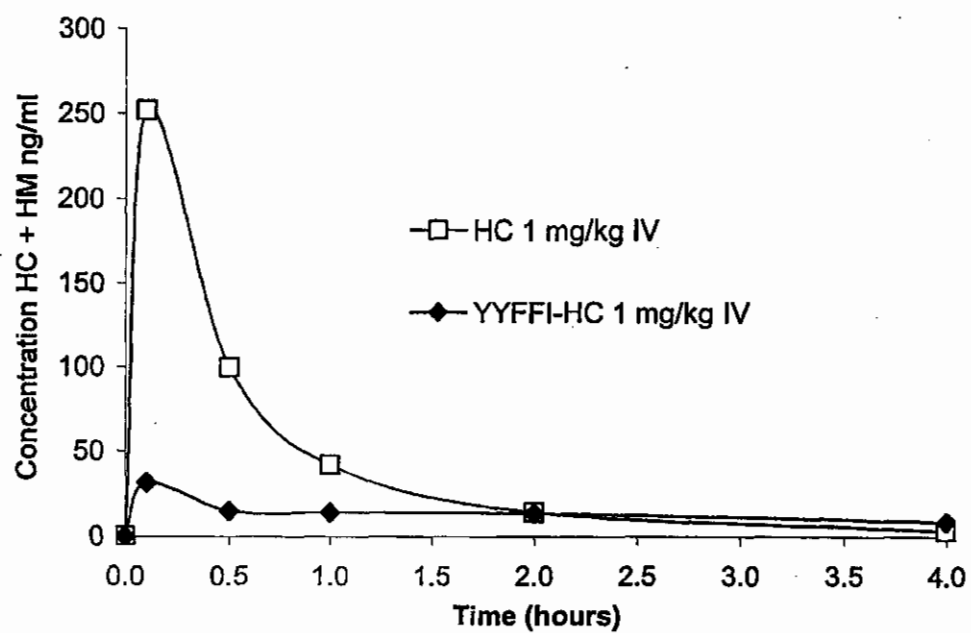


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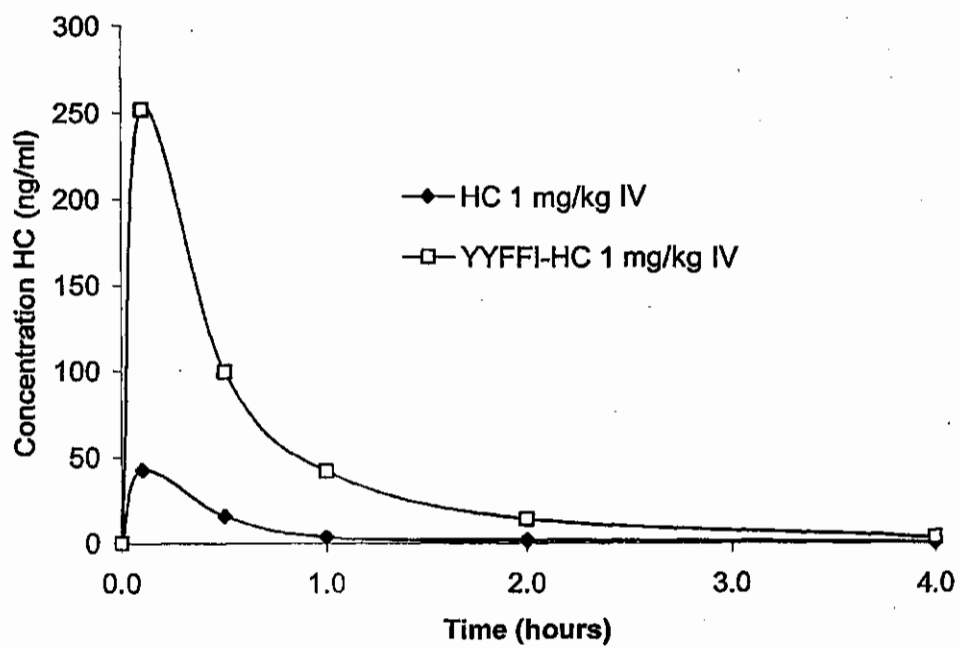


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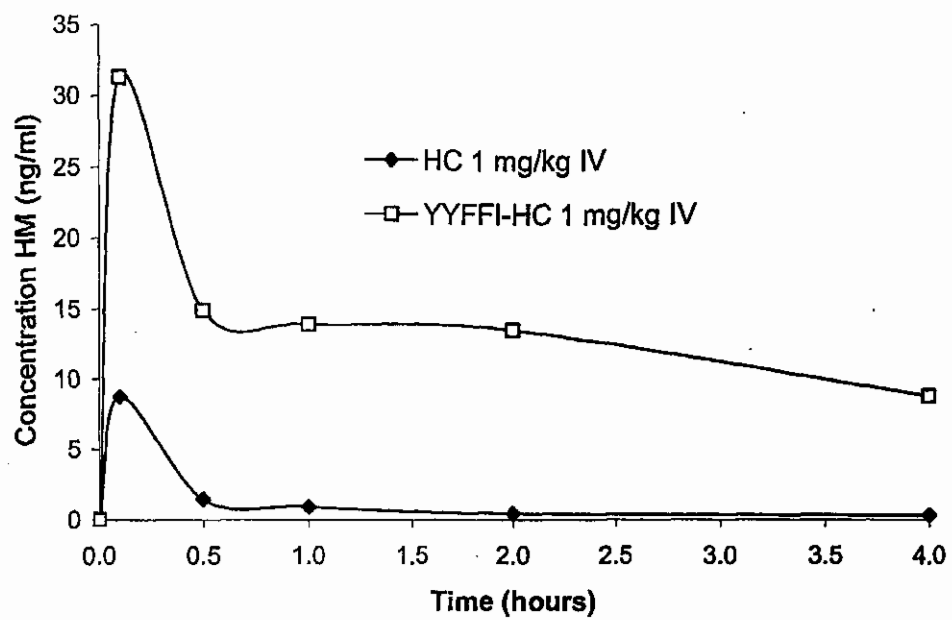


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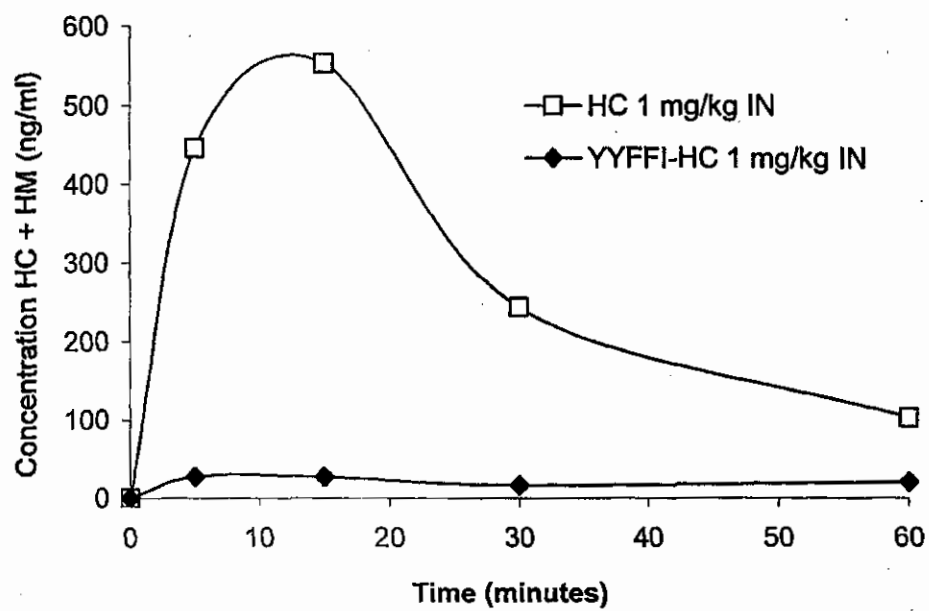


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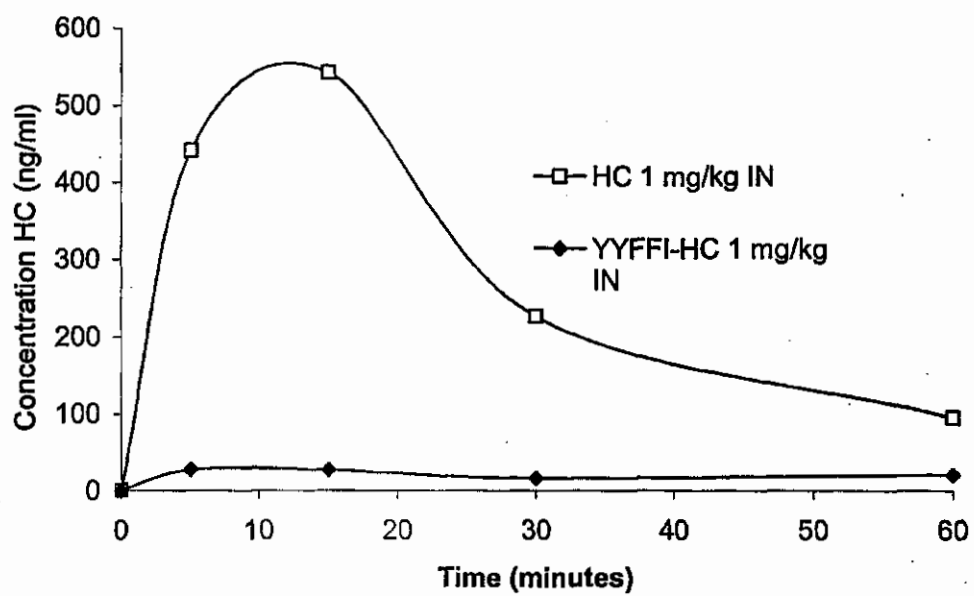


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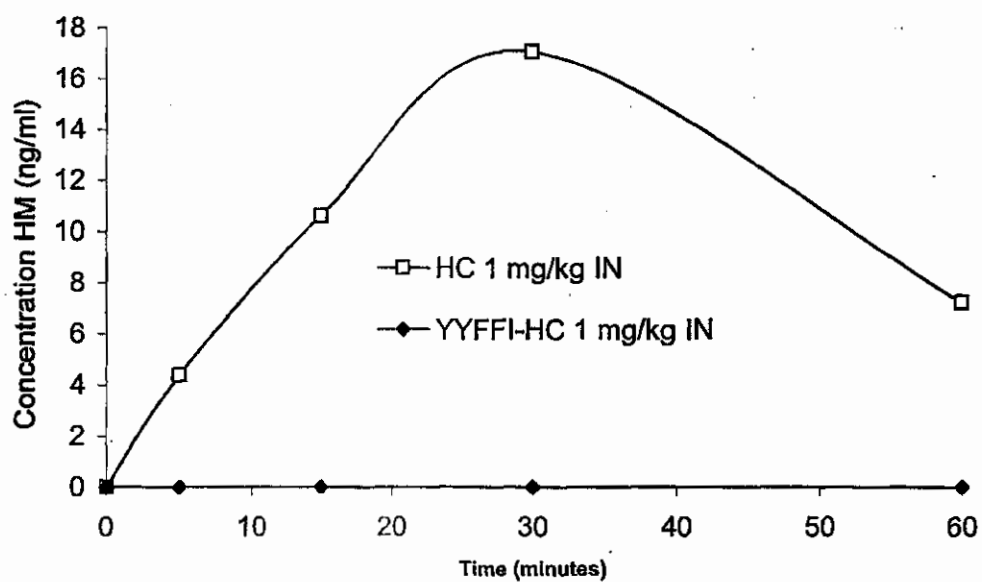
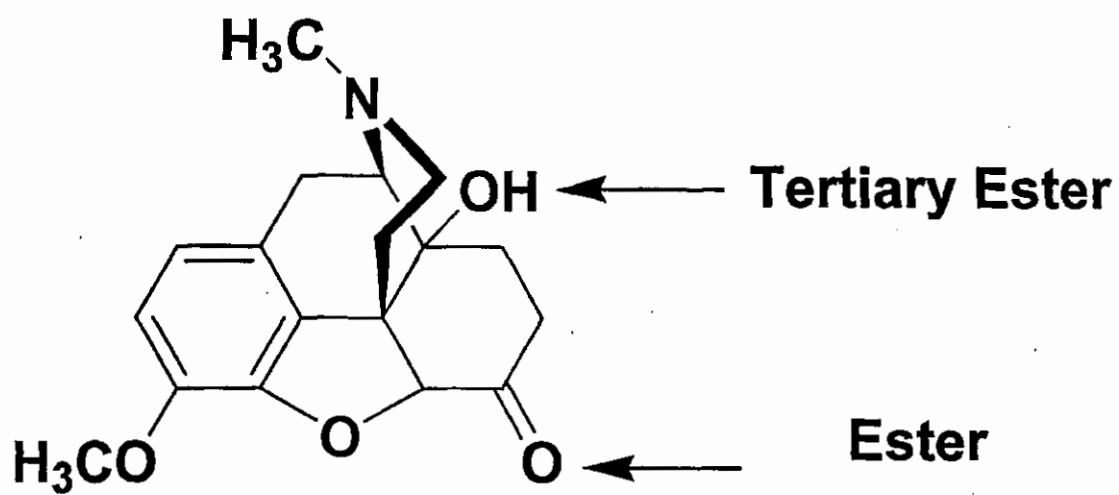


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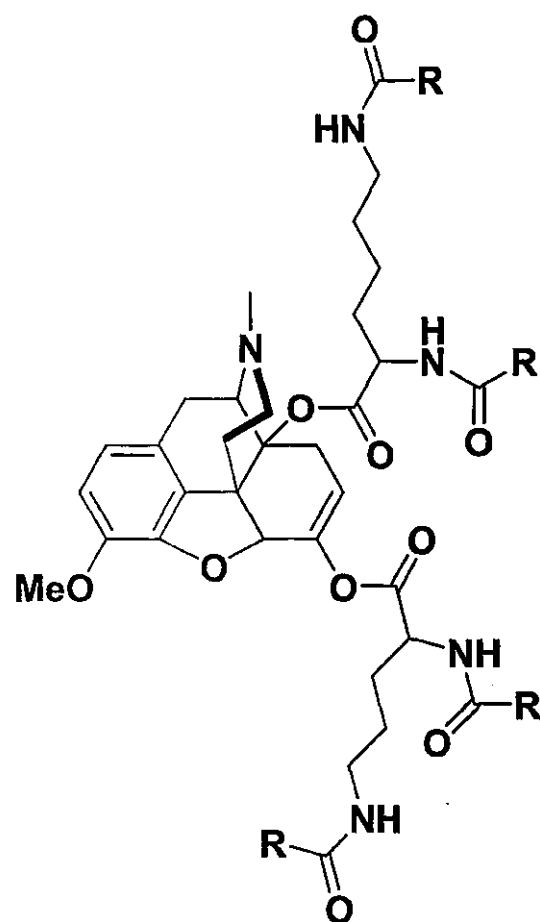
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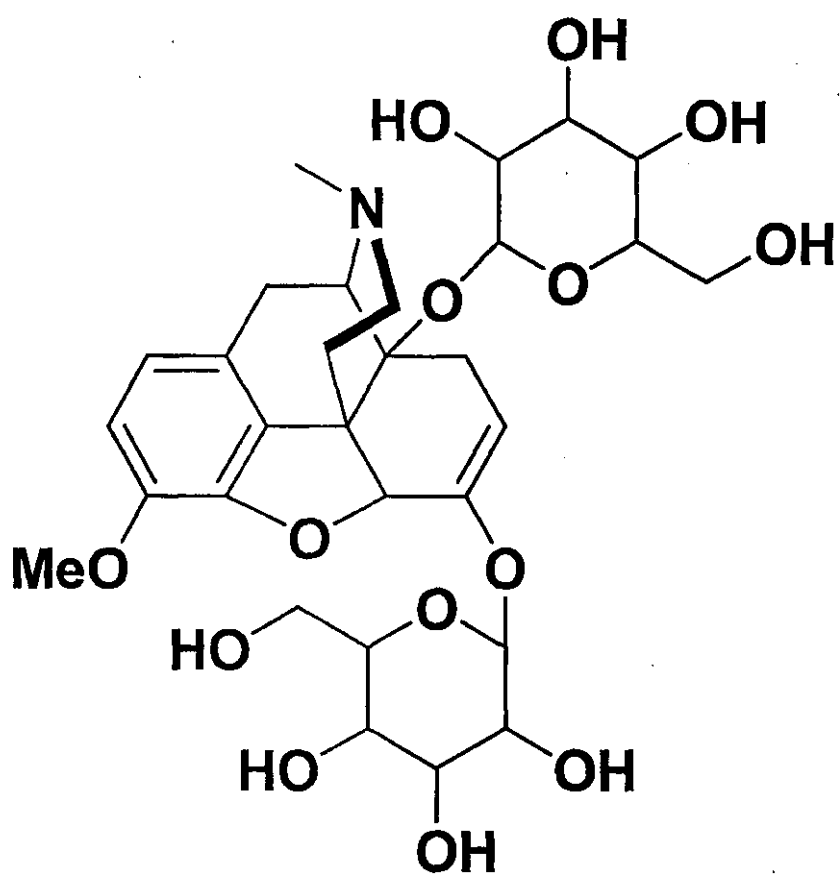
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Figure 152



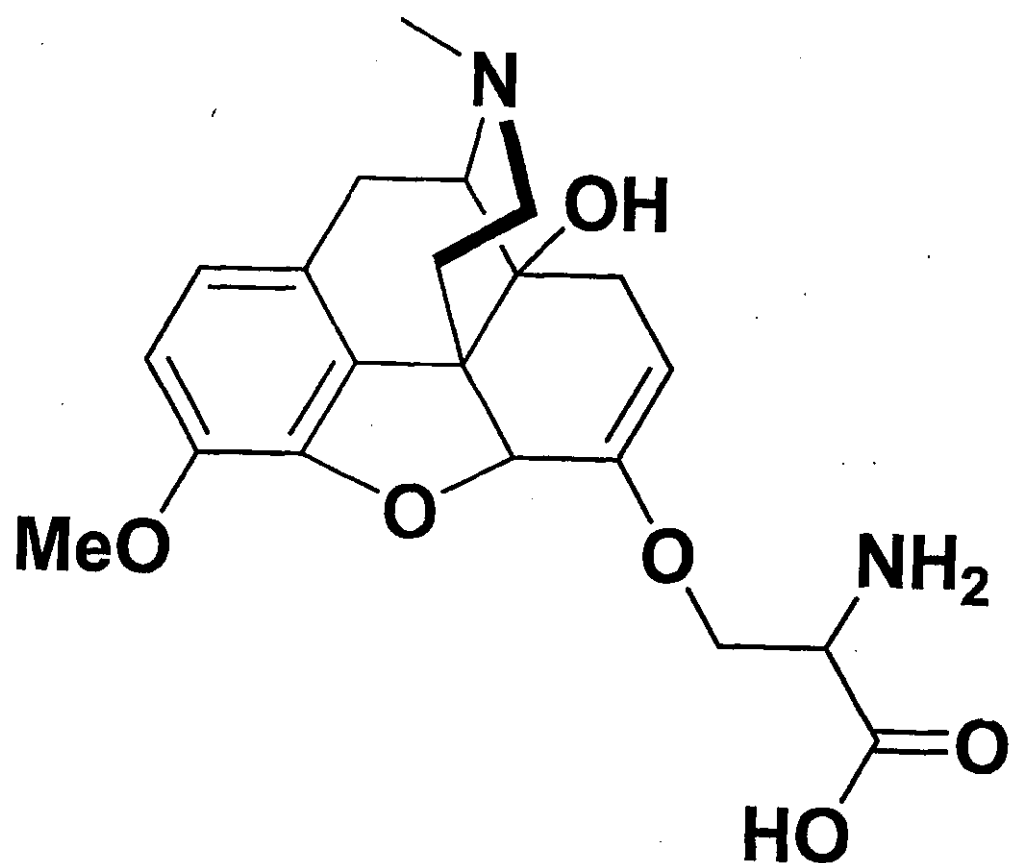
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Figure 153



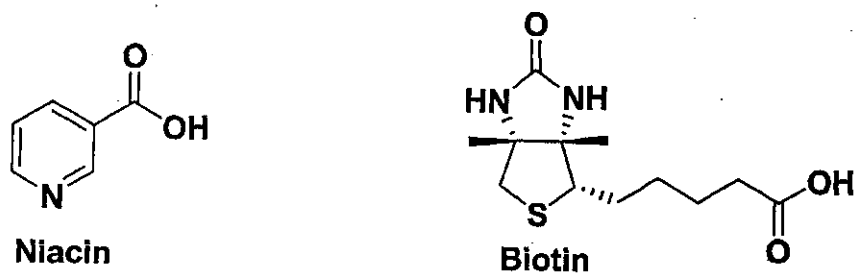
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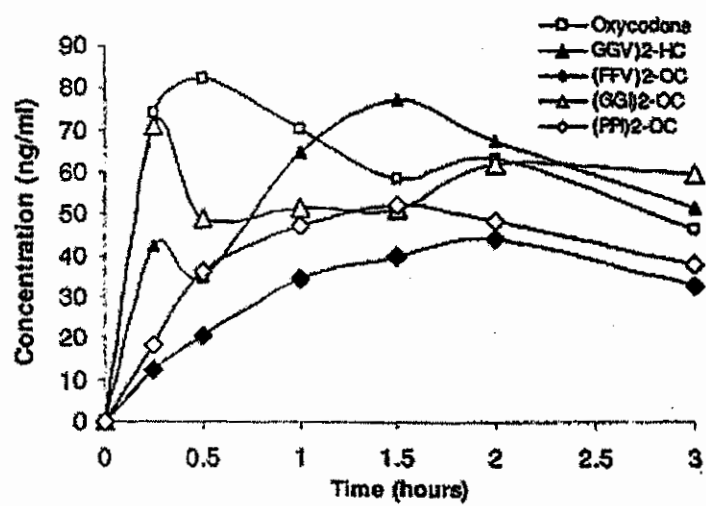


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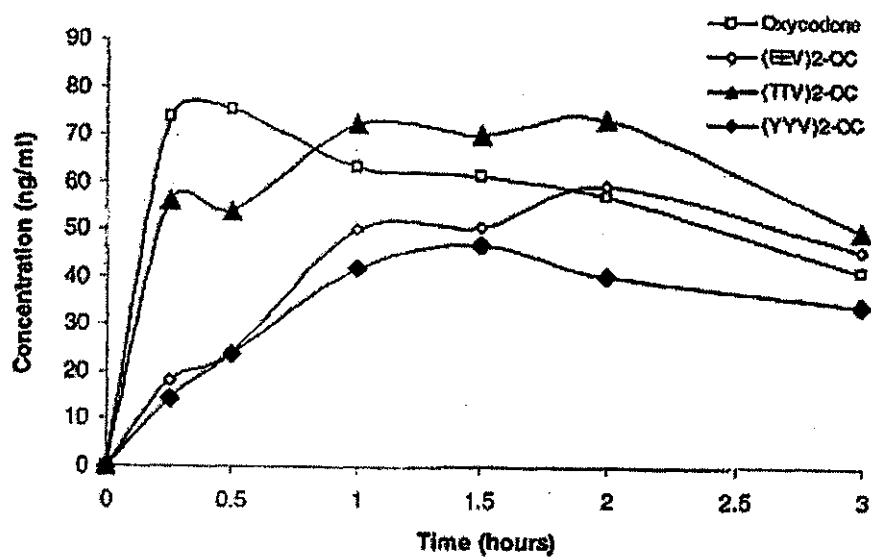


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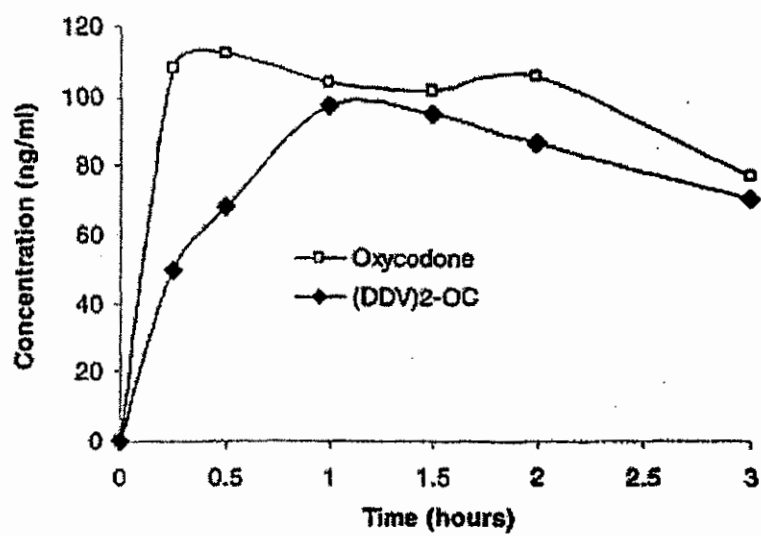


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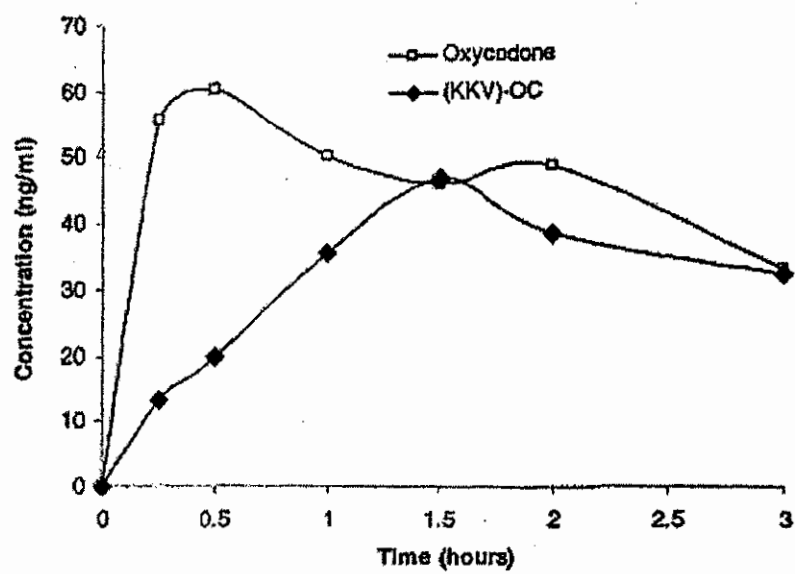


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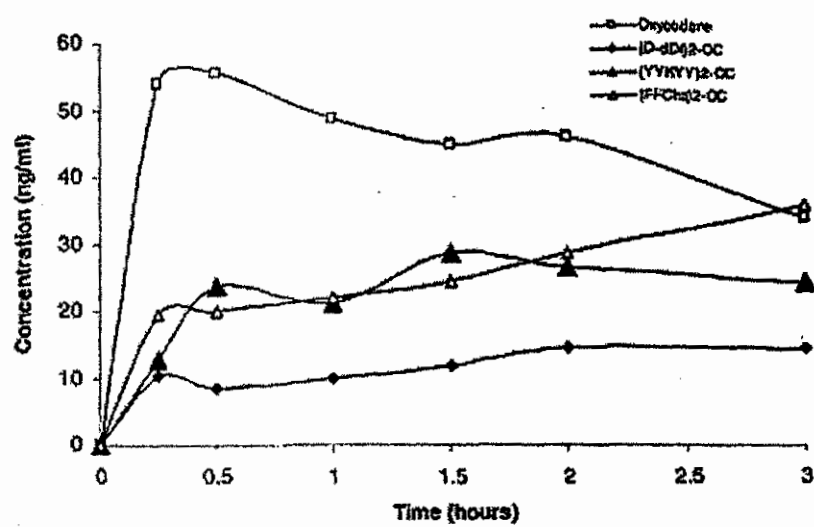


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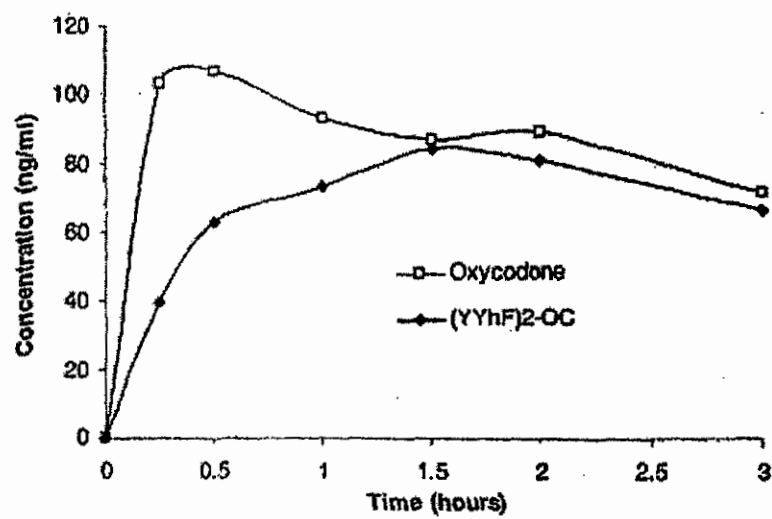


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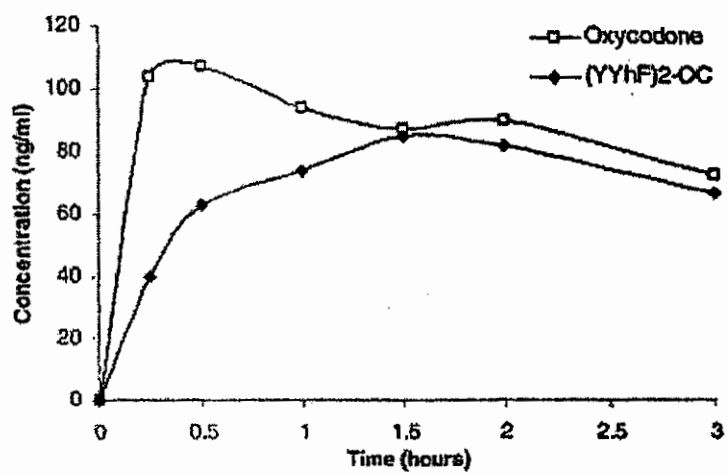


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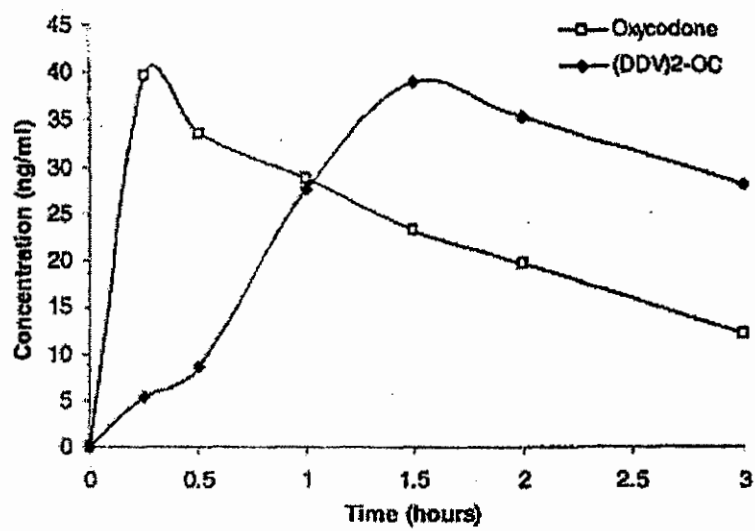


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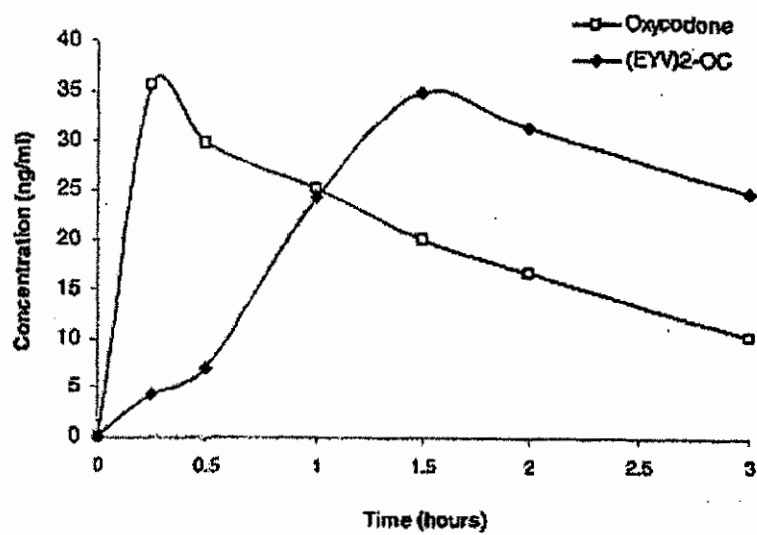


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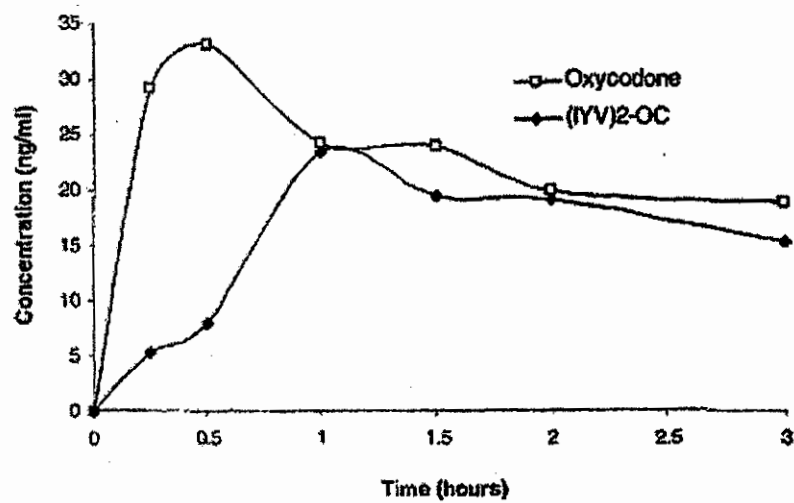


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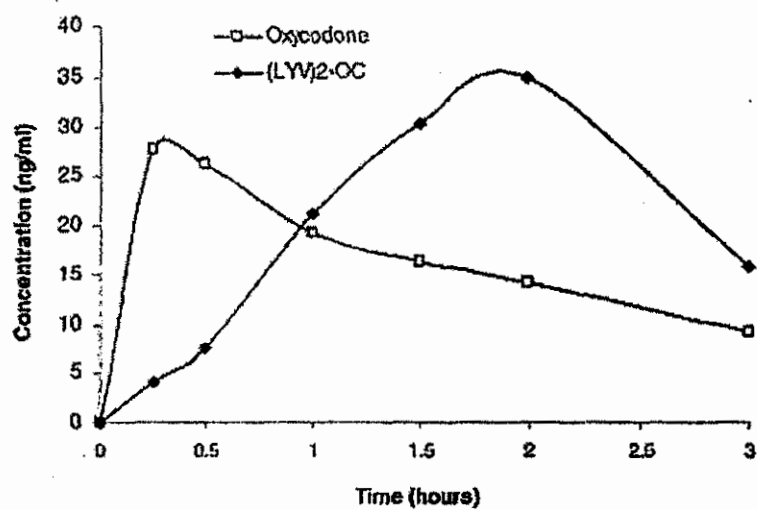


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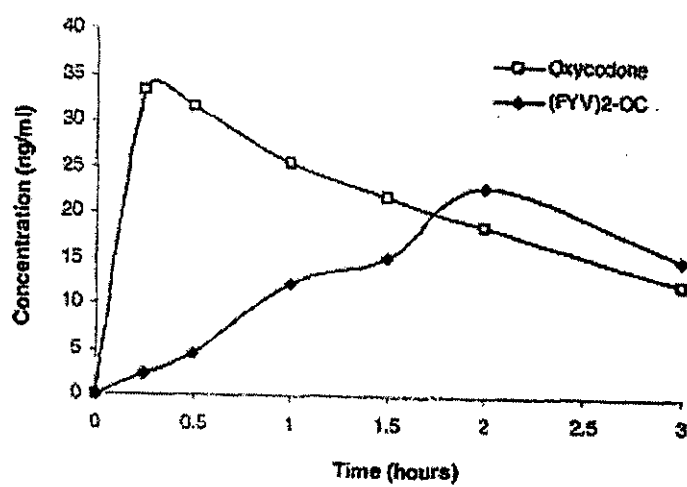


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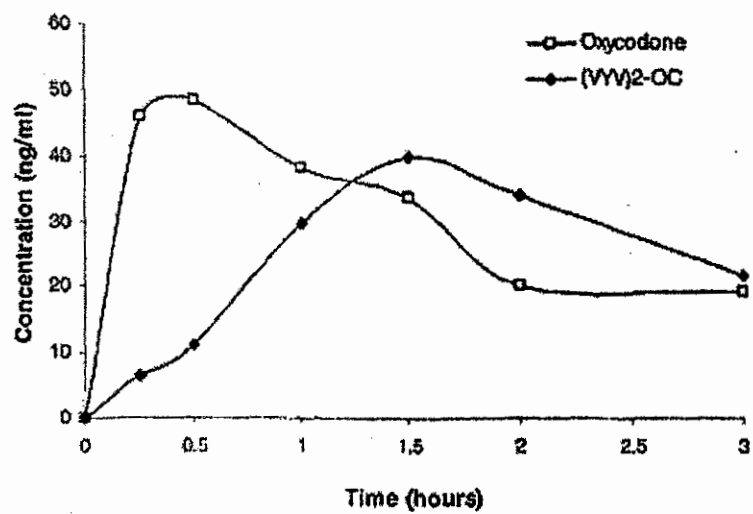


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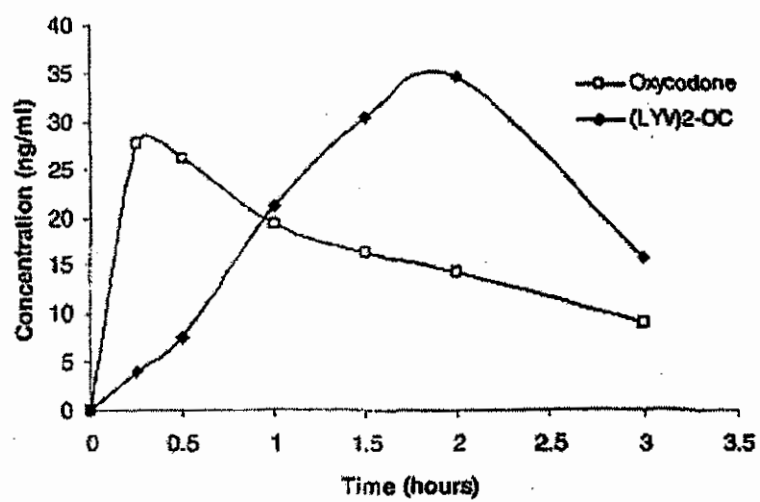


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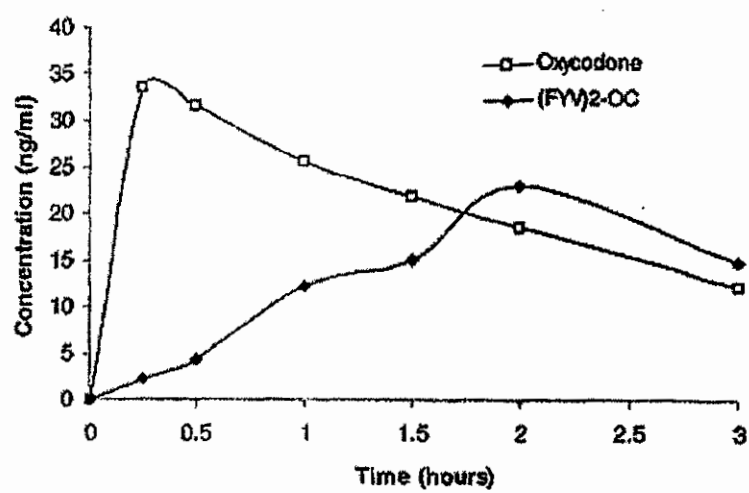


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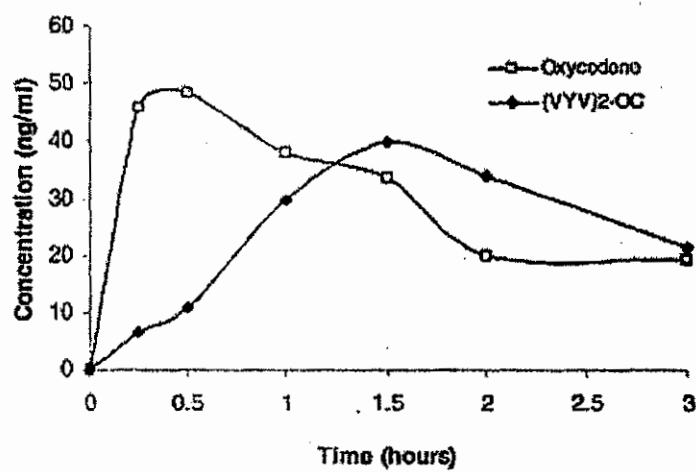


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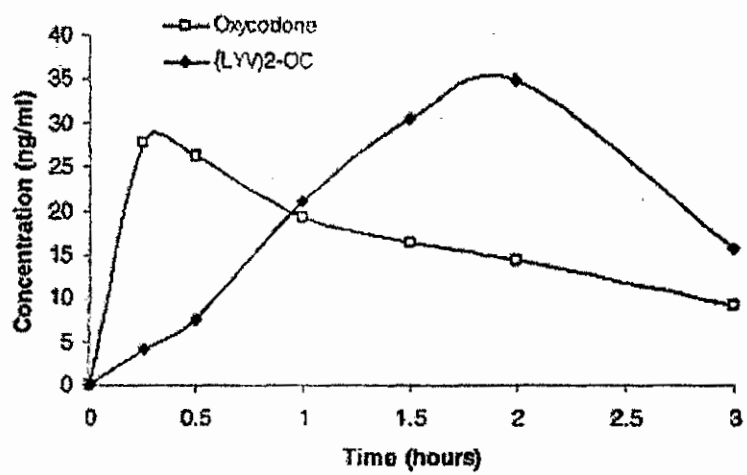


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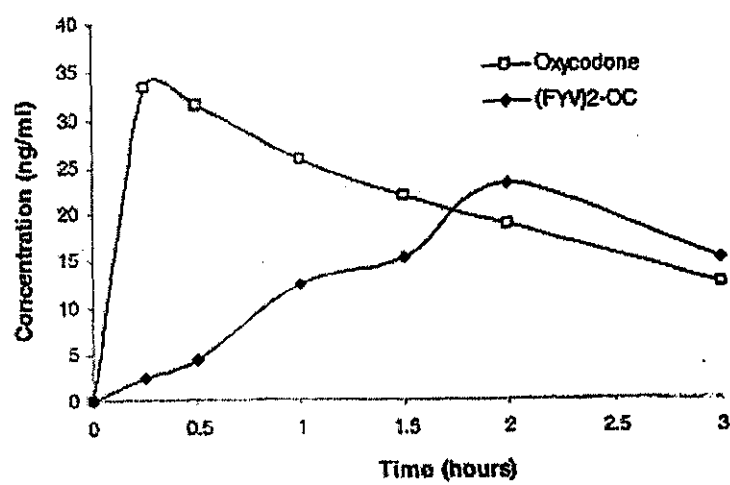


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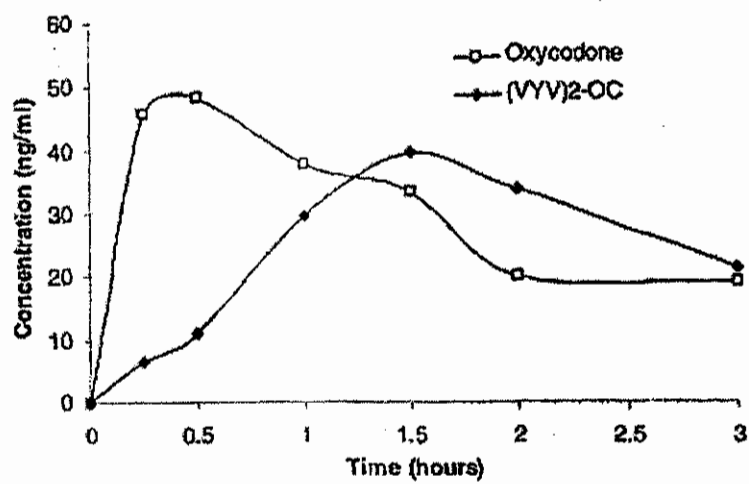


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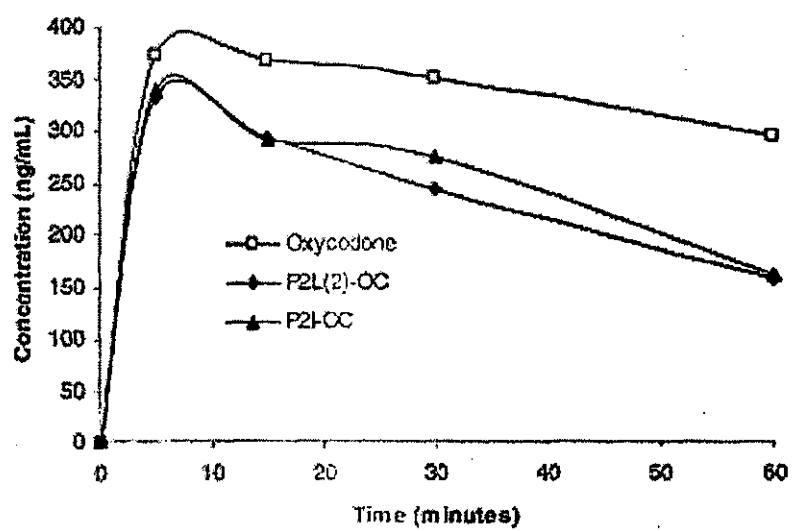


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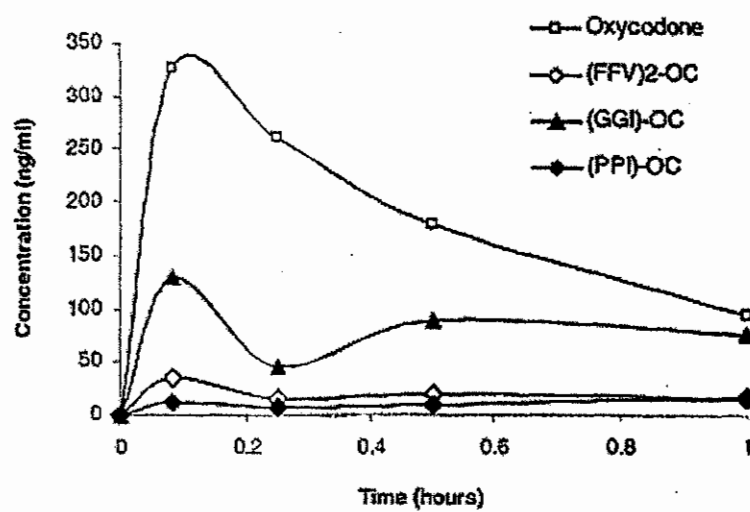


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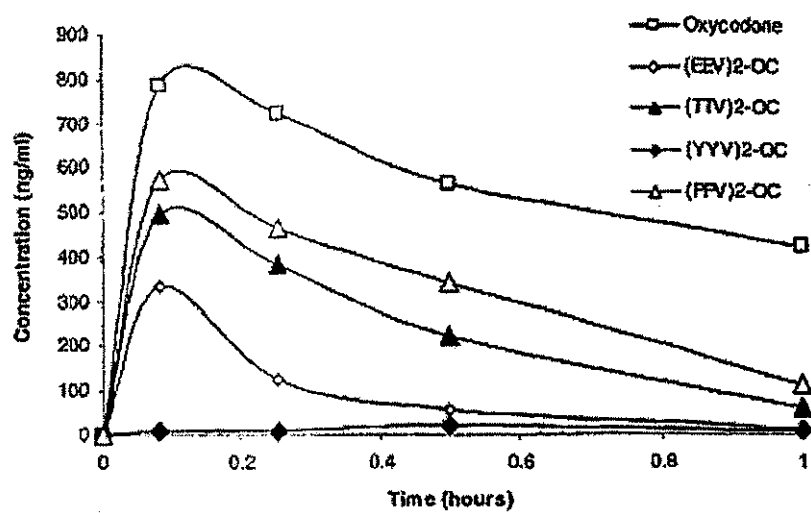


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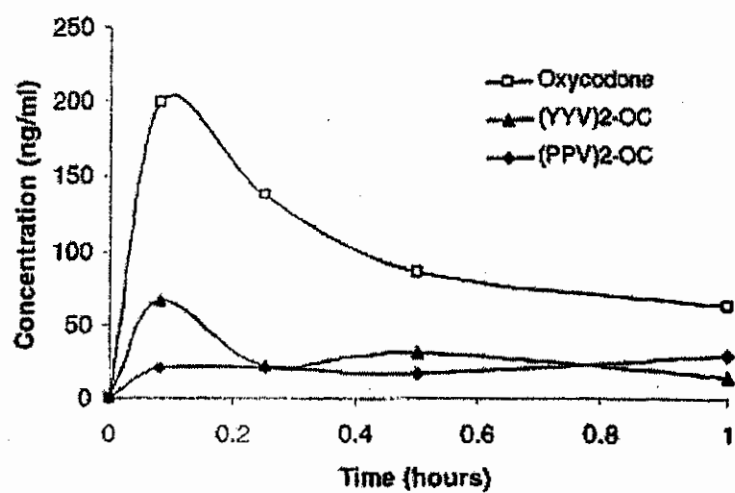


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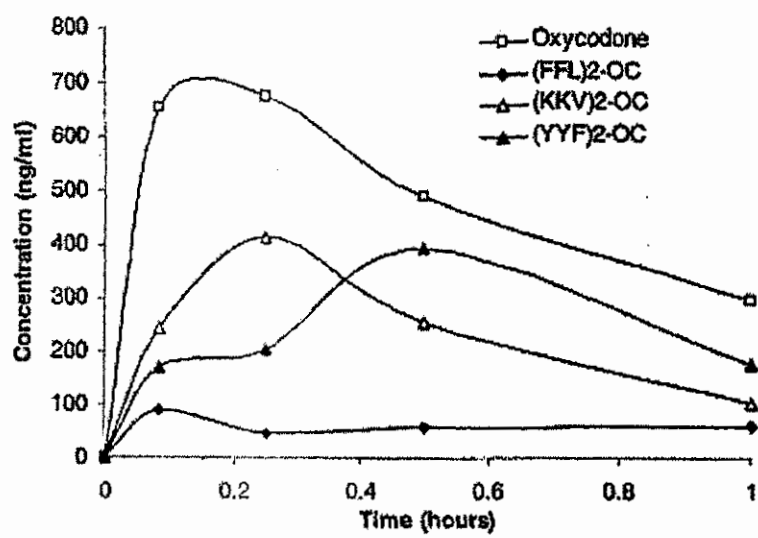


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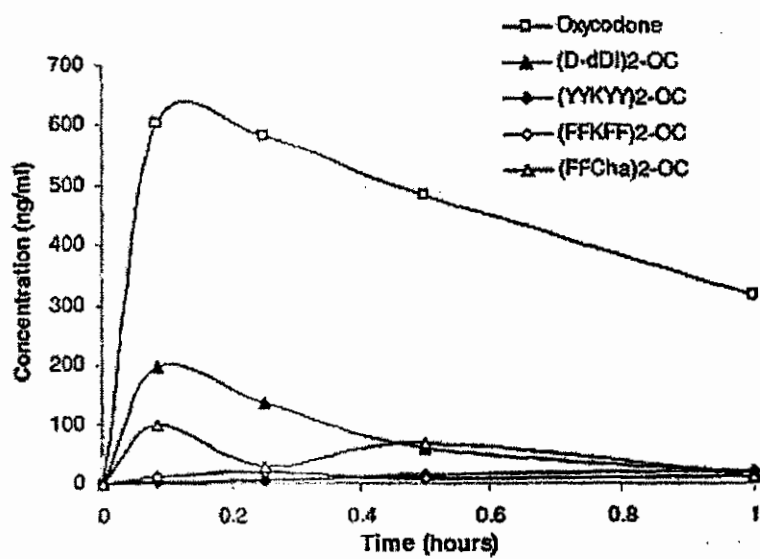


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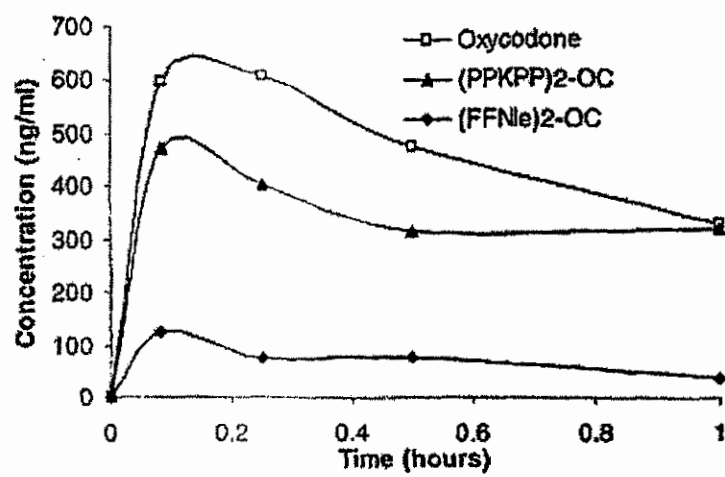


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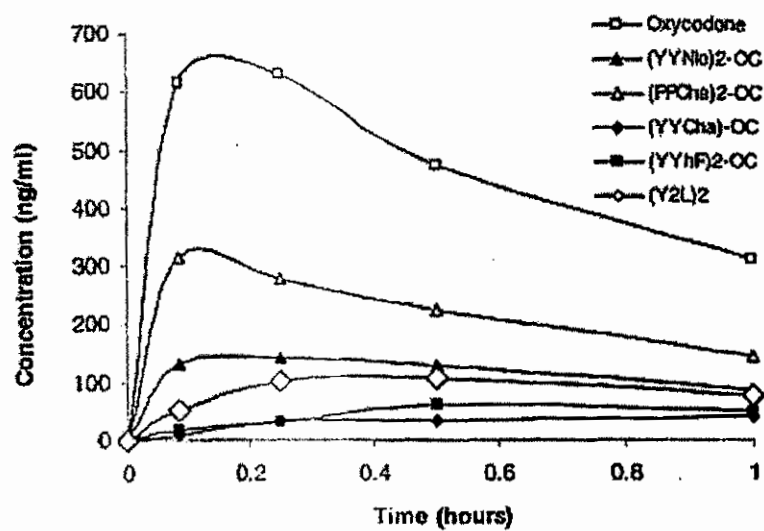


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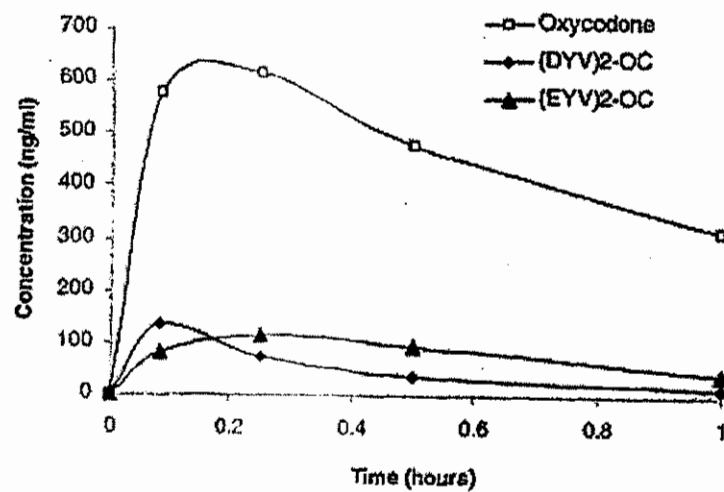


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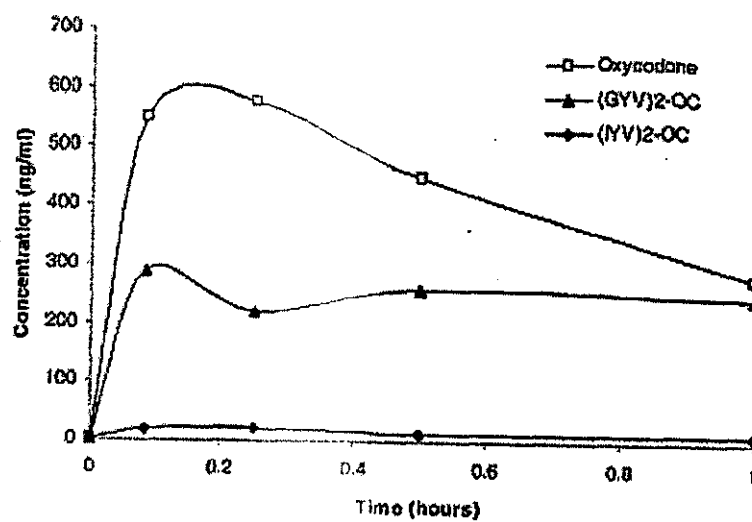


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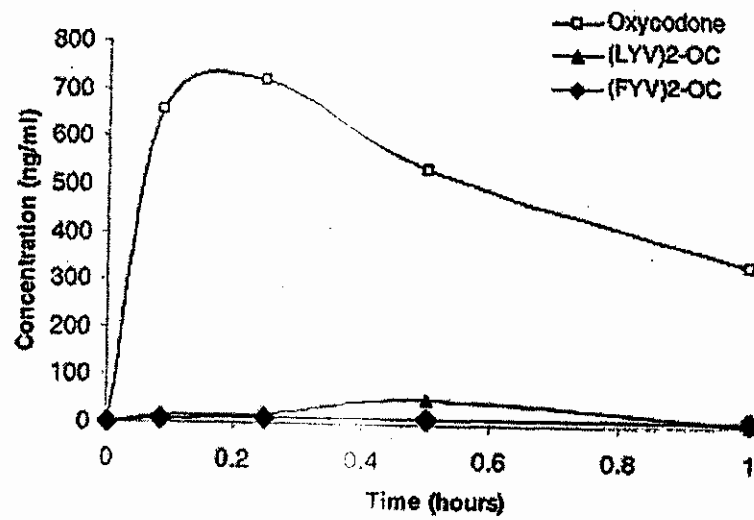


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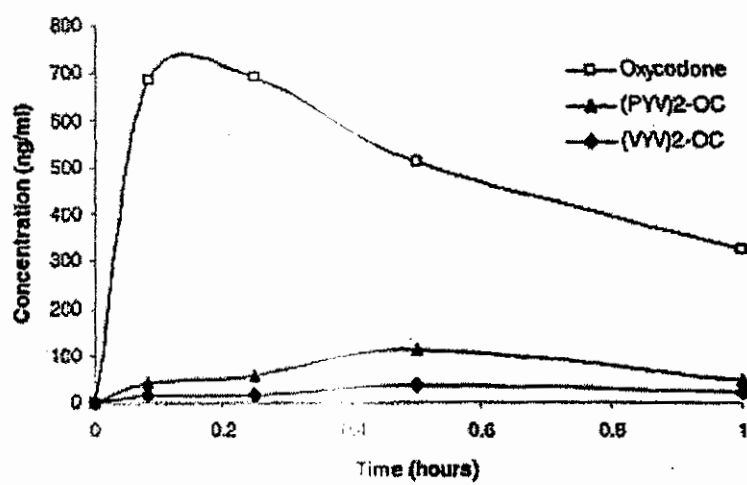


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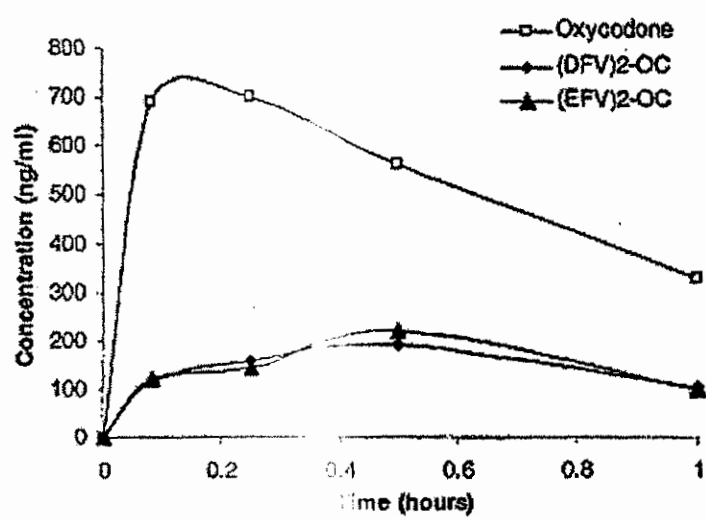


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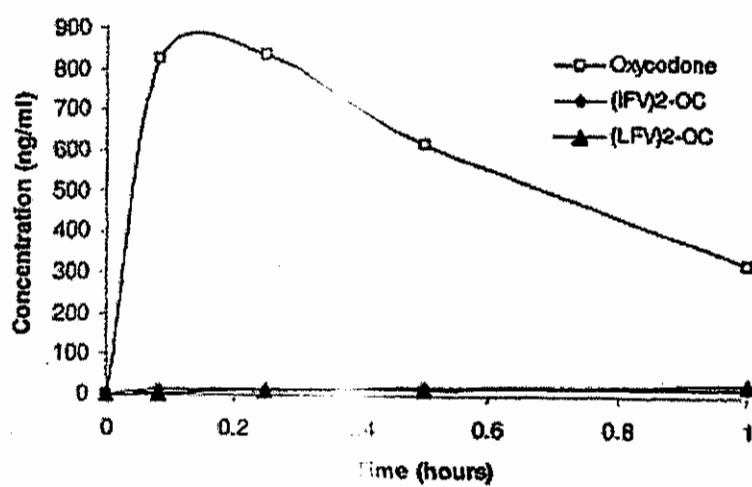


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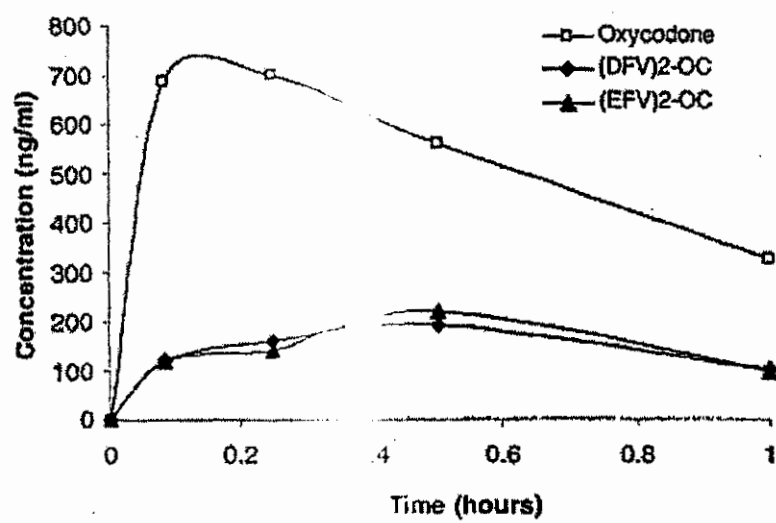


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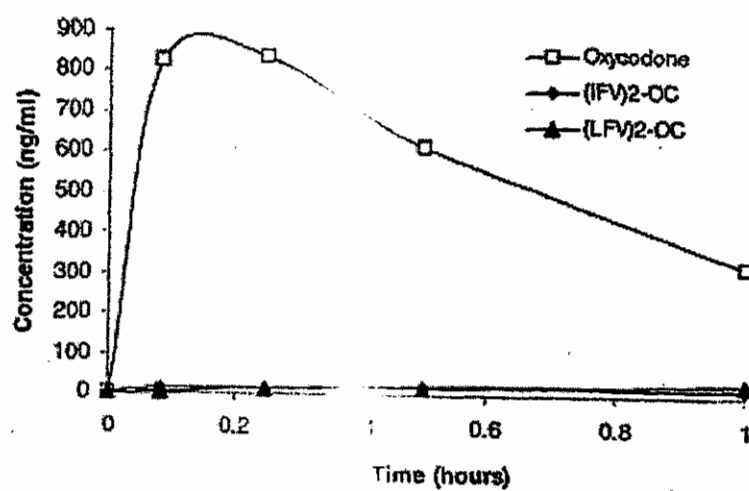


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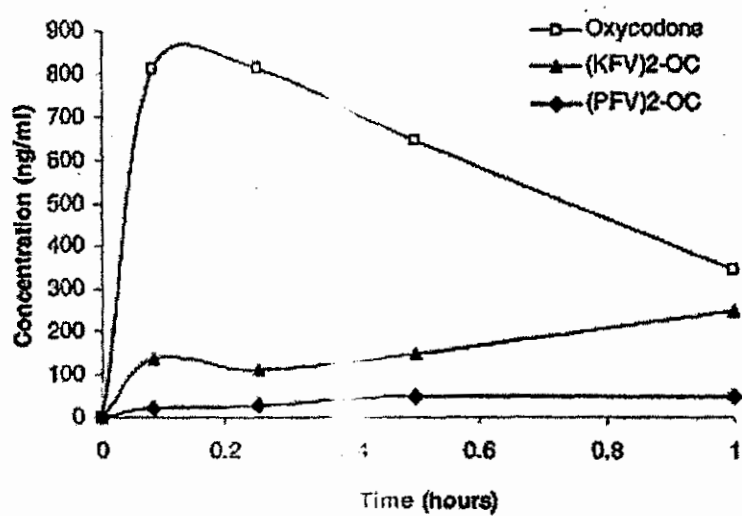


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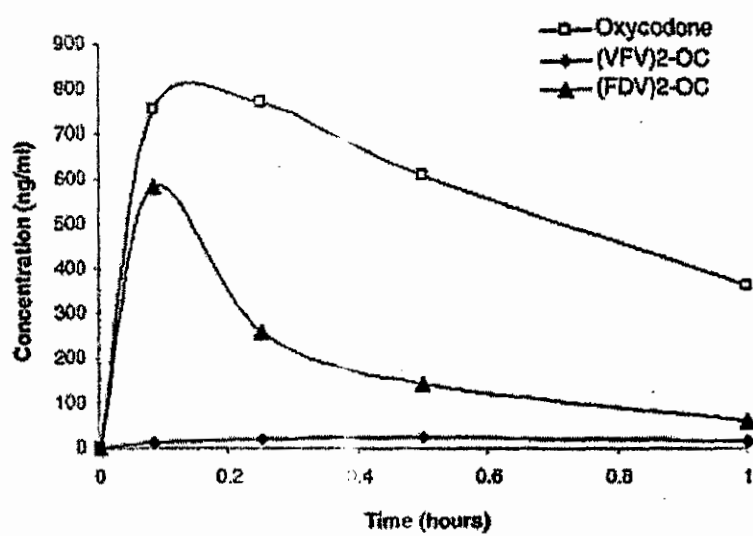


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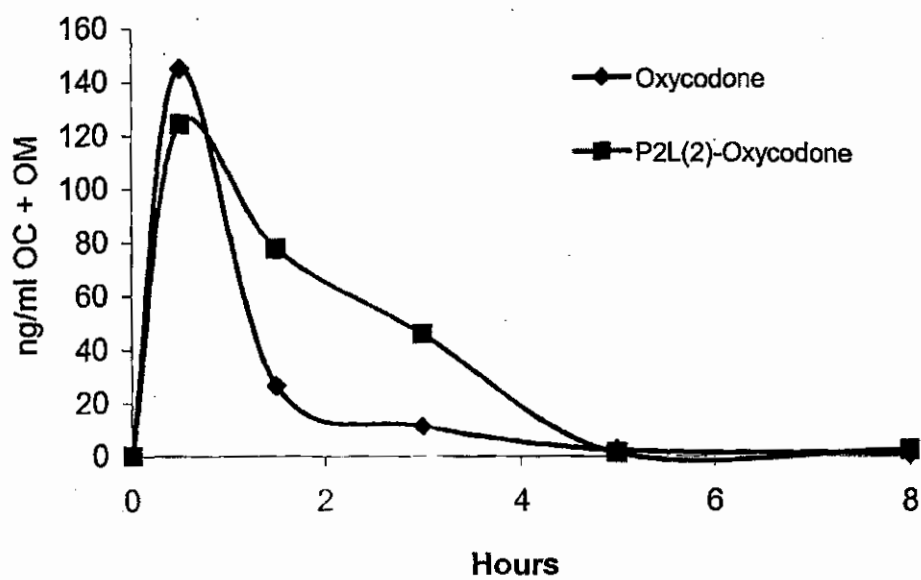


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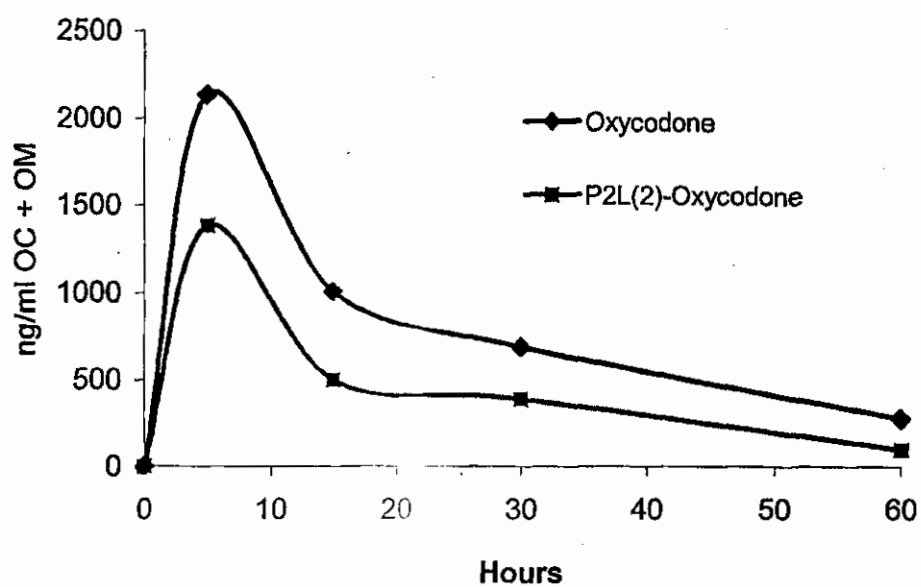


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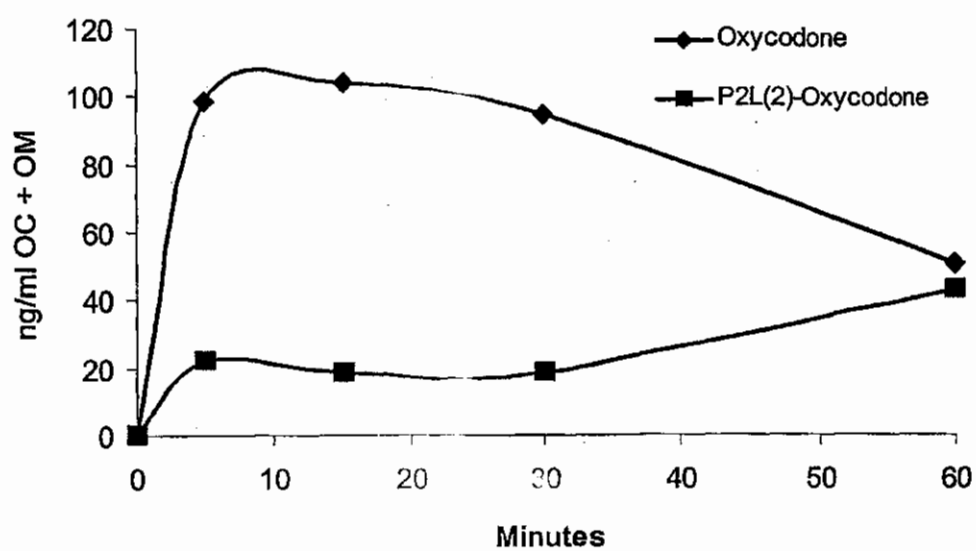


Figure 195