

7 Digoxin and digitoxin are two drugs extracted from *Digitalis* plants.

Both of these drugs have been tested using modern drug trials.

(a) William Withering was the first to use *Digitalis* to treat patients.

Give **three** differences between Withering's method of drug testing *Digitalis* and the modern way in which digoxin and digitoxin were tested.

(3)

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(b) The table below shows some information about digoxin and digitoxin when used to treat patients.

Information	Digoxin	Digitoxin
Daily dose / mg	0.125 to 0.500	0.050 to 0.200
Time for peak effect / hours after dosing	3 to 6	6 to 12
Percentage of drug absorbed into blood (%)	40 to 75	90 to 100