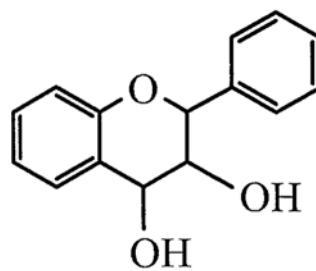


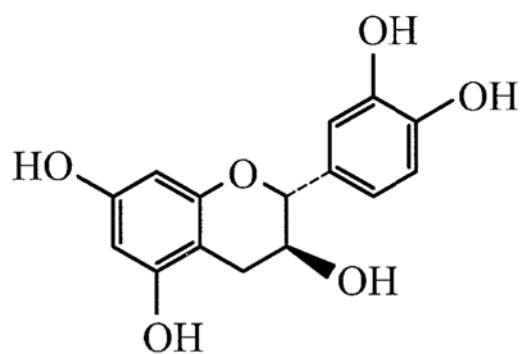
3-flavanol

FIG. 1A



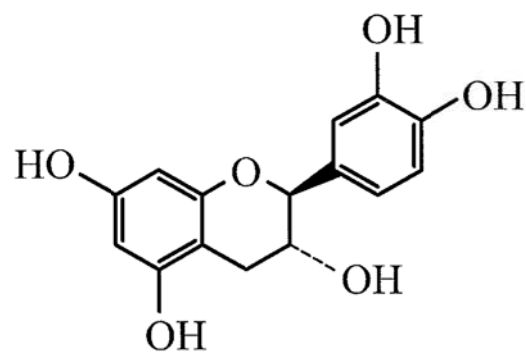
3,4-flavanol

FIG. 1B



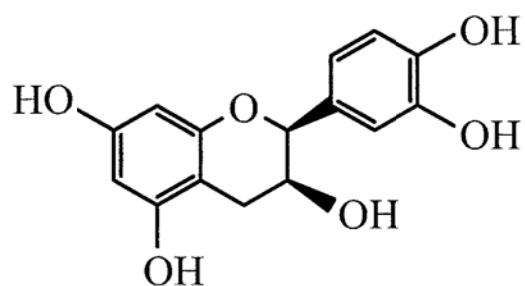
(+) -catechin (2R,3S)

FIG. 1C



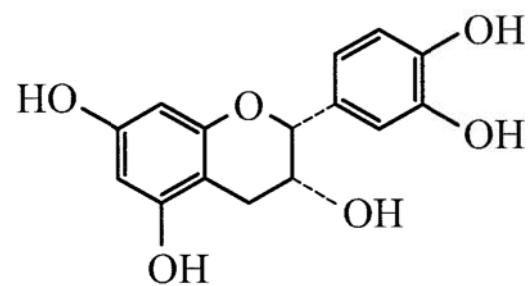
(-) -catechin (2S,3R)

FIG. 1D



(+) -epicatechin (2S,3S)

FIG. 1E



(-) -epicatechin (2R,3R)

FIG. 1F

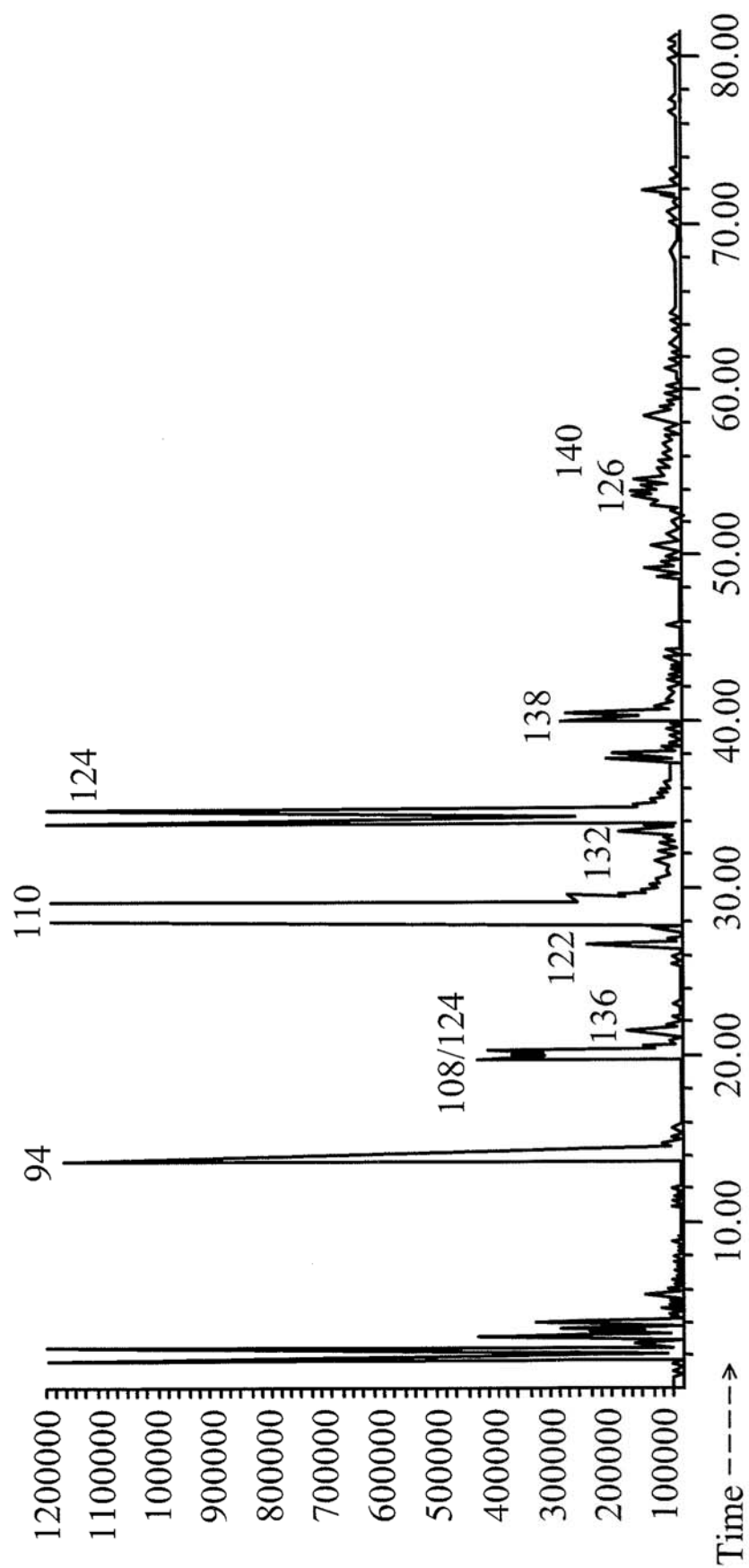
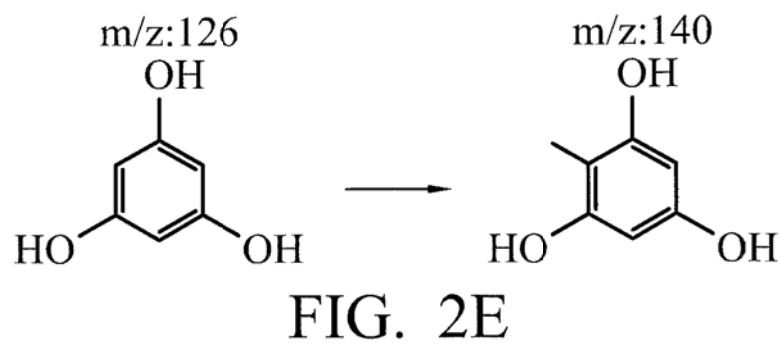
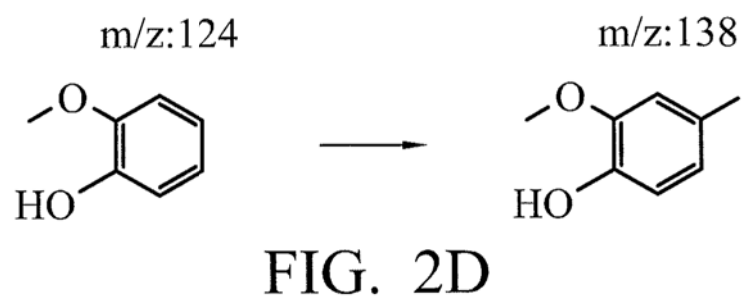
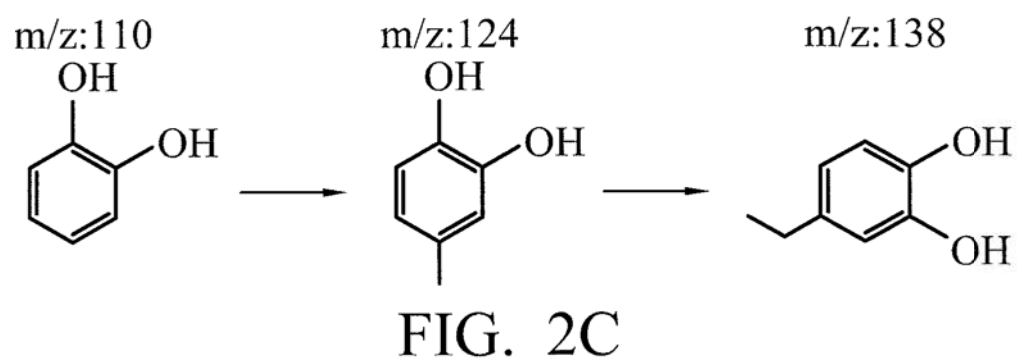
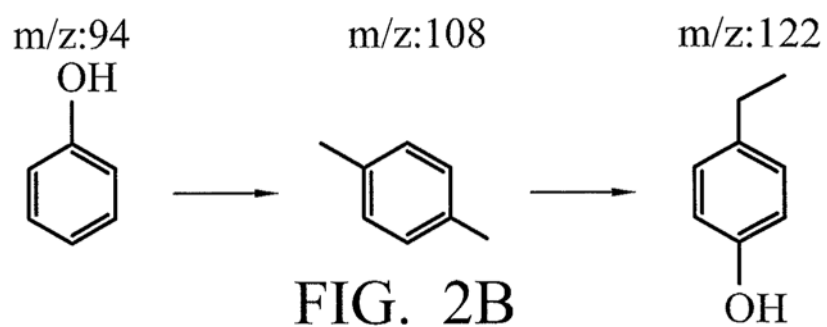


FIG. 2A



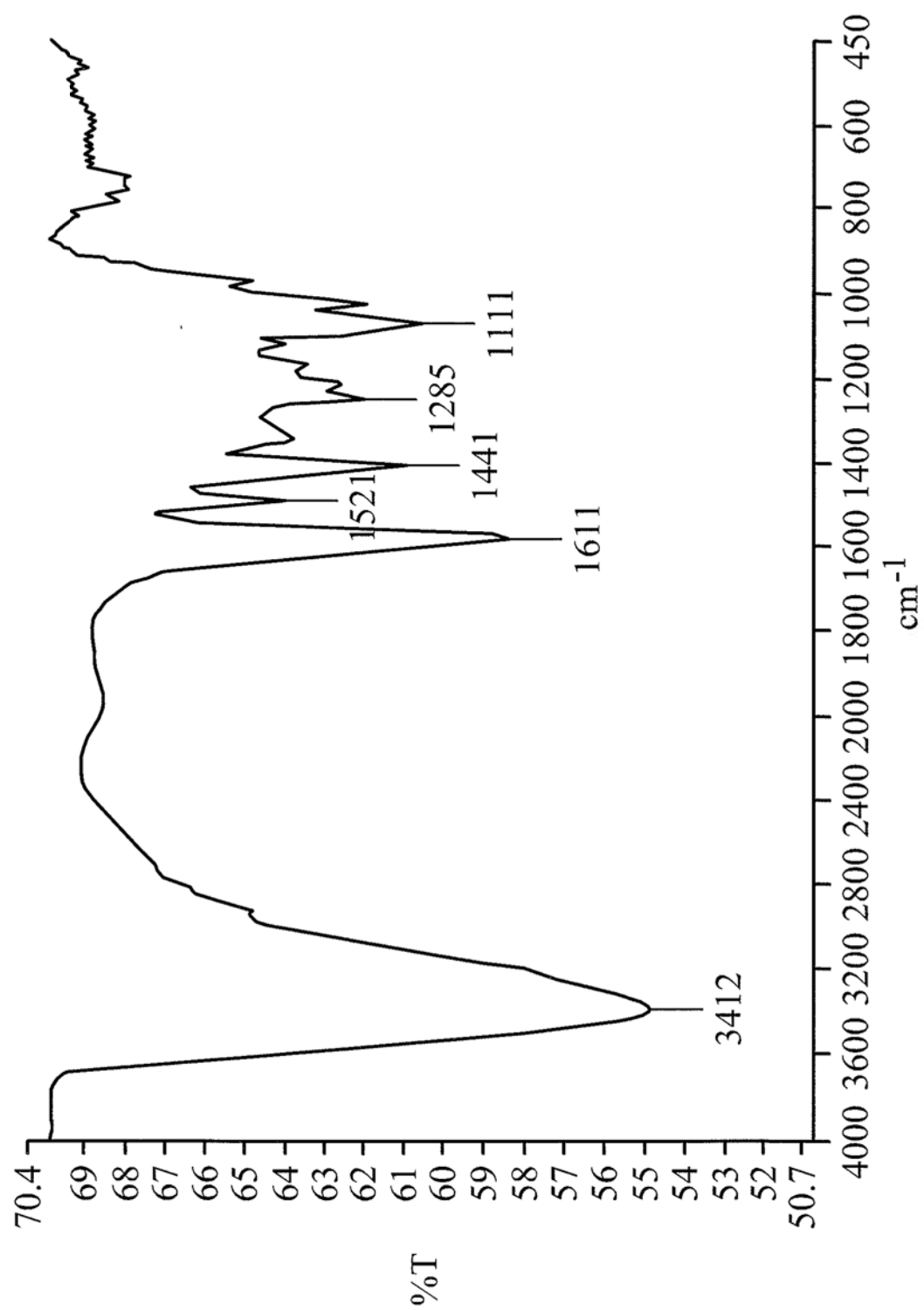


FIG. 3

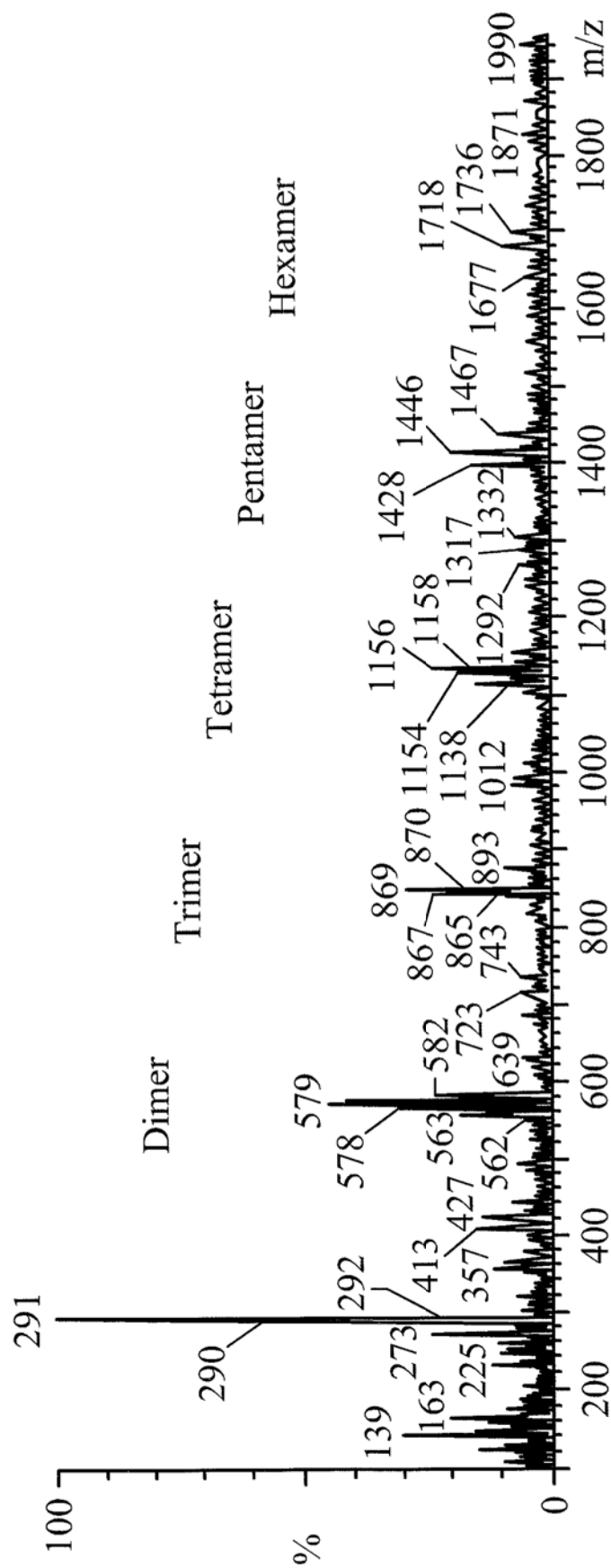


FIG. 4A

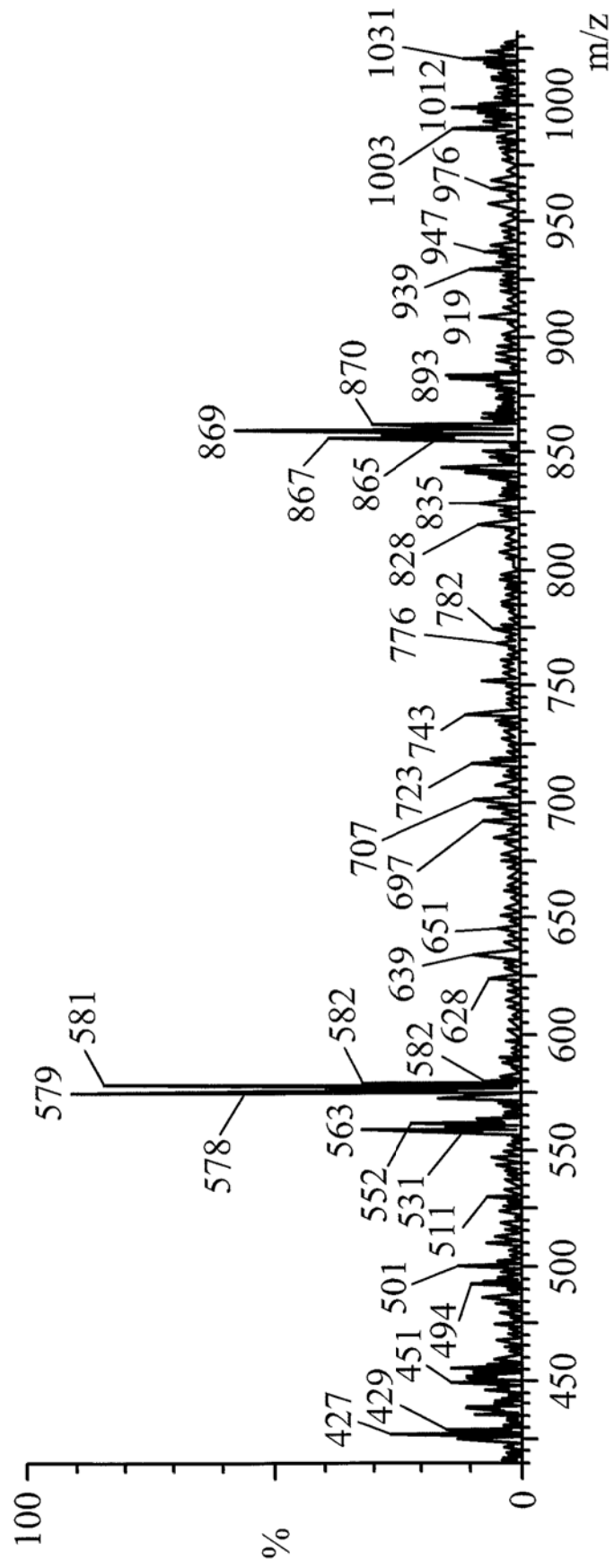


FIG. 4B

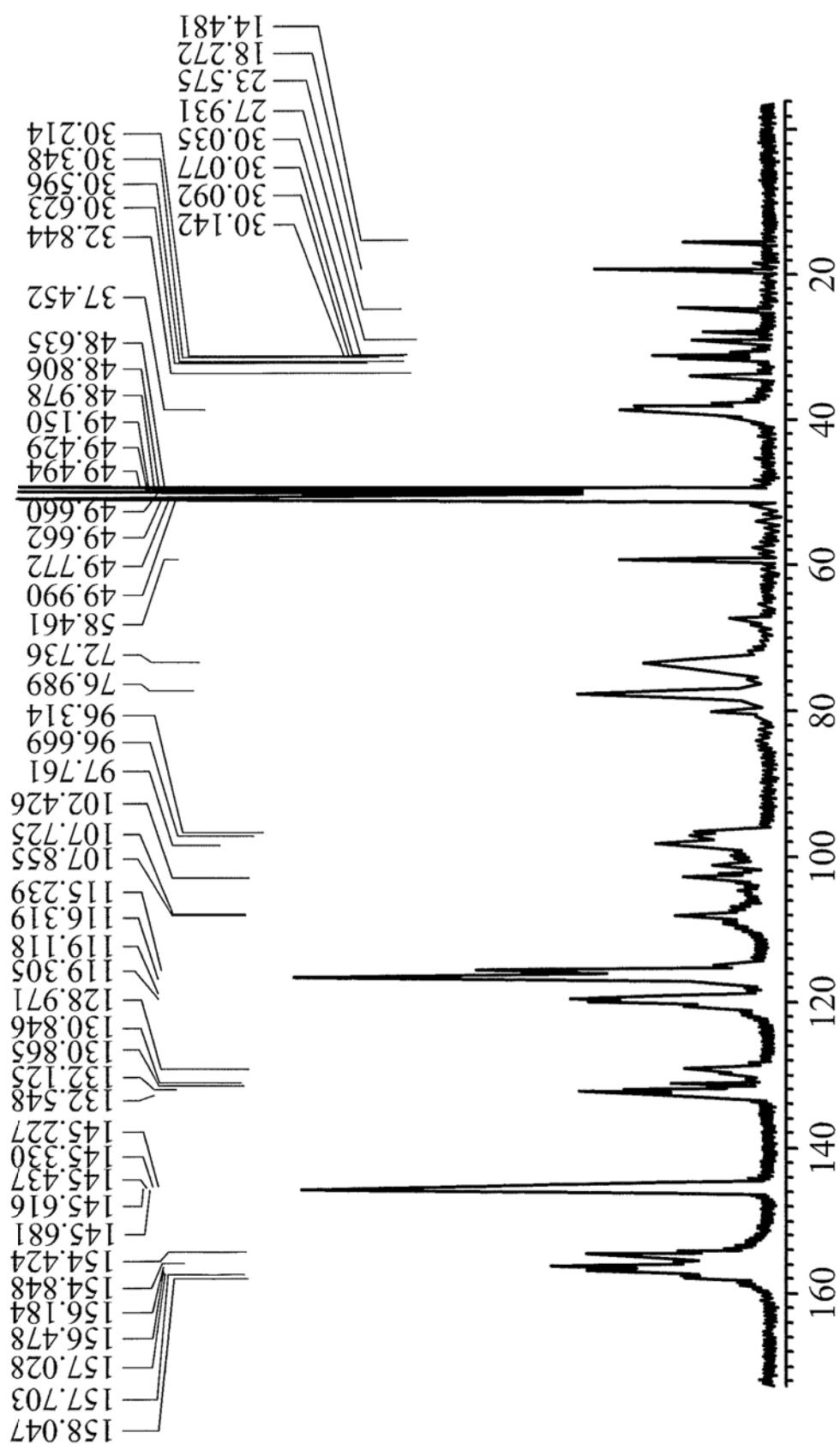


FIG. 5A

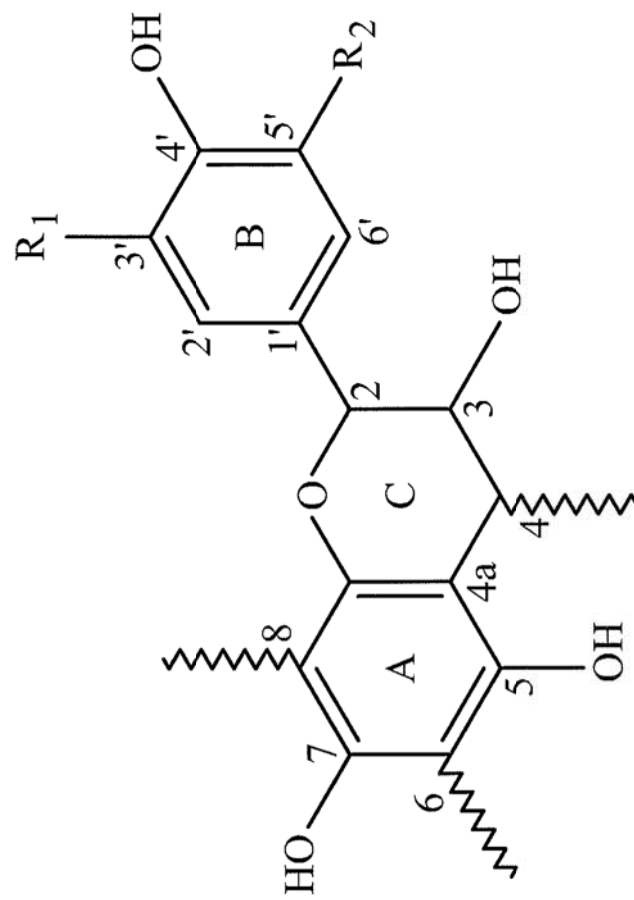


FIG. 5B

gnal (ppm)	Definition
154.4-158.1	C5, C7, C8a, A-ring
145.2-145.7	C3' & C4' Proanthocyanidin (catechin/epicatechin)(without delphindin)
132.1-132.5	C1'
131	C2'
119	C3'
116	C4'
115	C5'
107	C6'
102	C4a
96.3-97.9	C6, C8
72.7-77	C2(trans), C2(cis), C3(trans & cis)
67.3	C3
37.4	C4

FIG. 5C

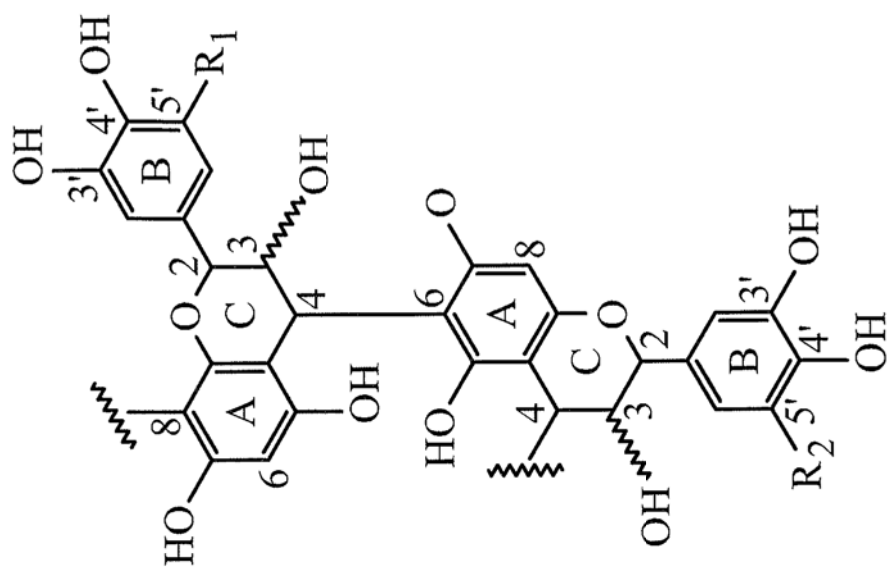


FIG. 6B

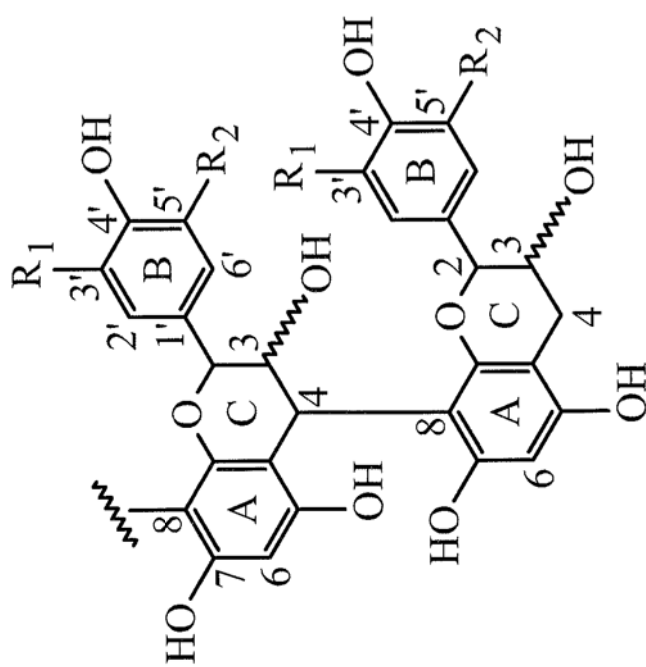


FIG. 6A

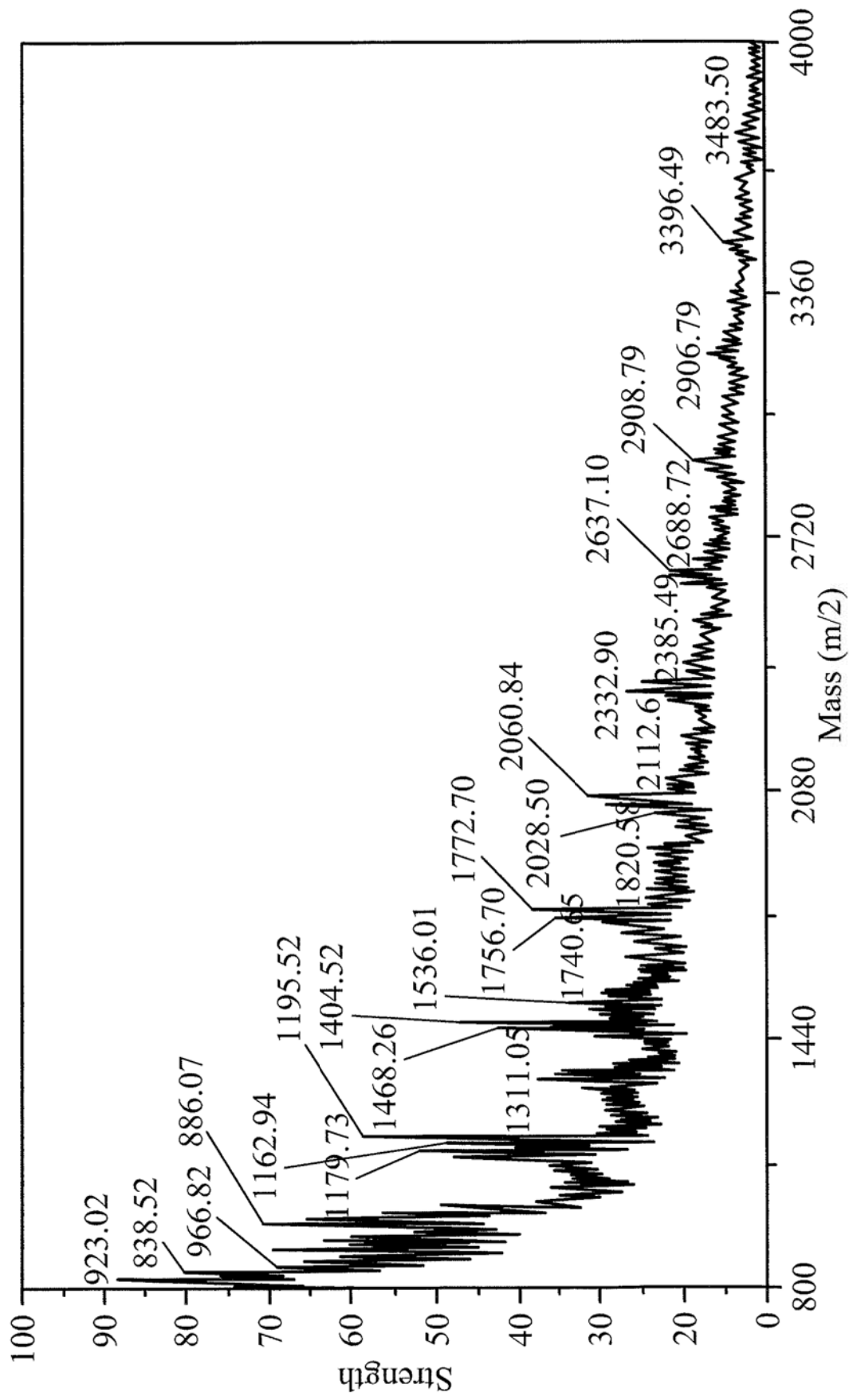


FIG. 7A

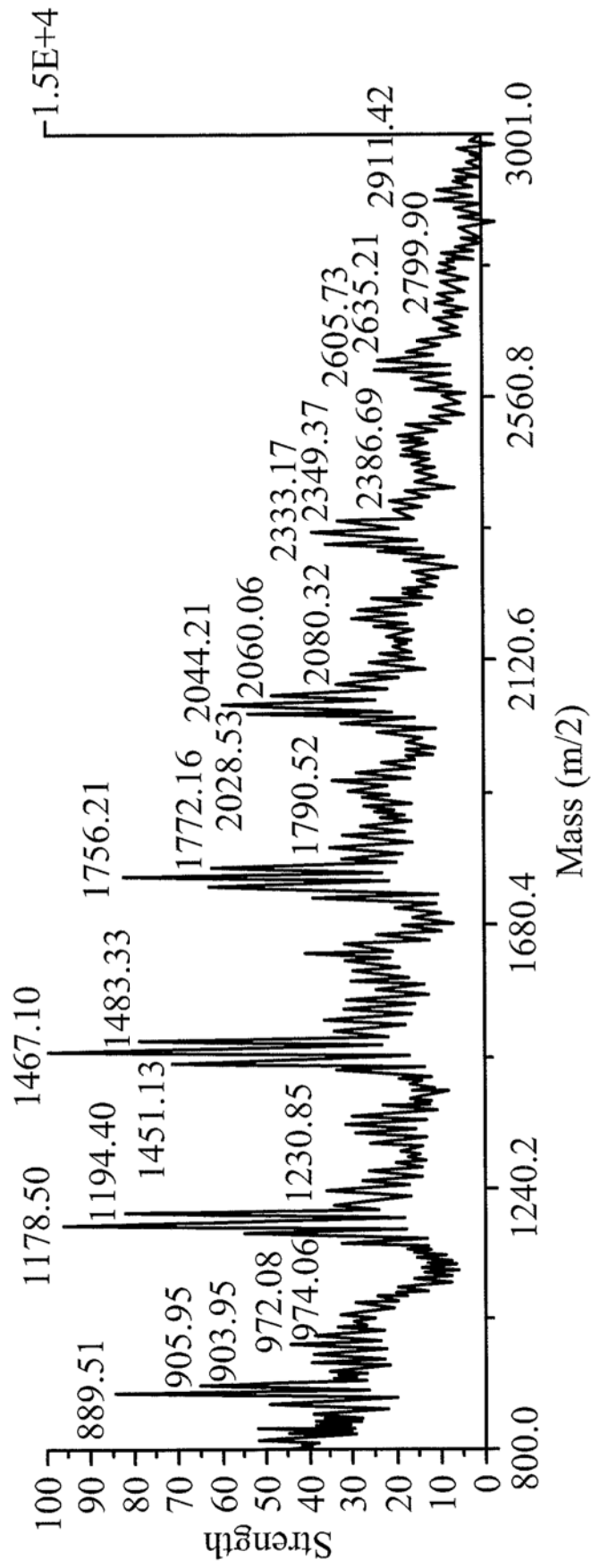


FIG. 7B

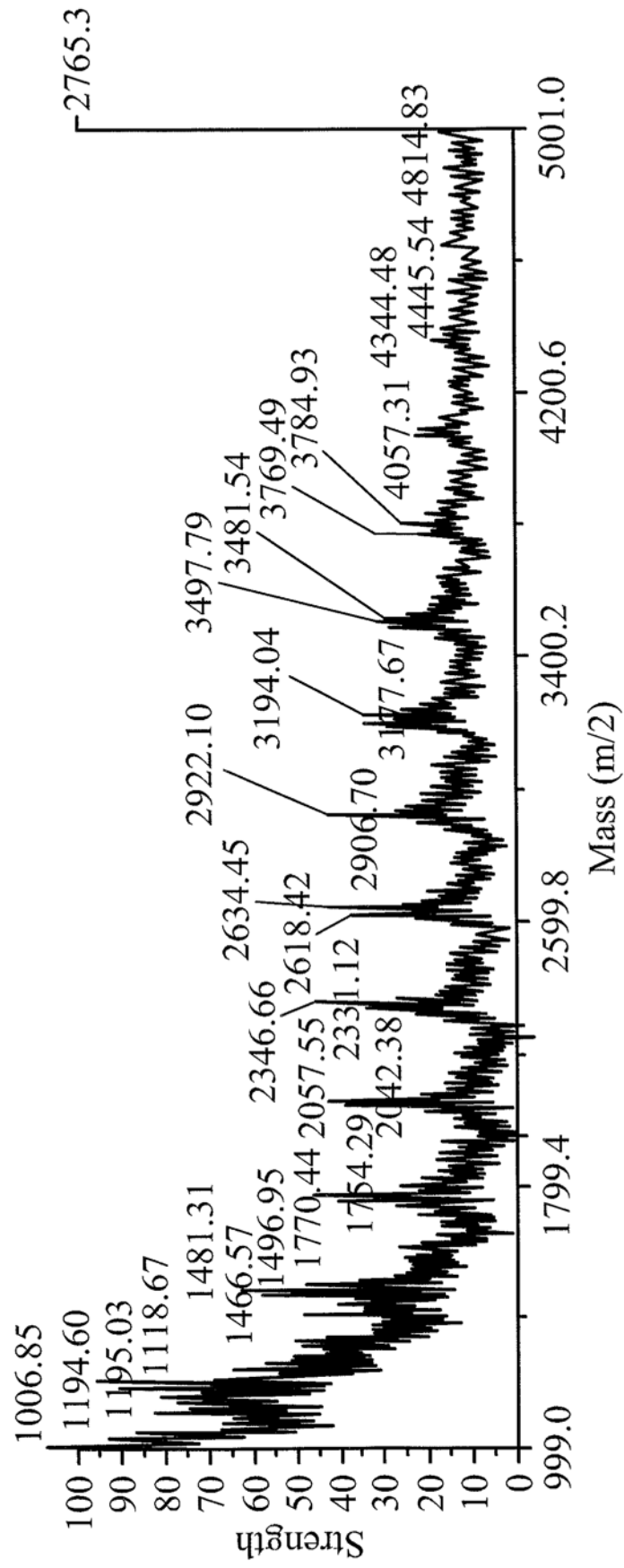


FIG. 7C

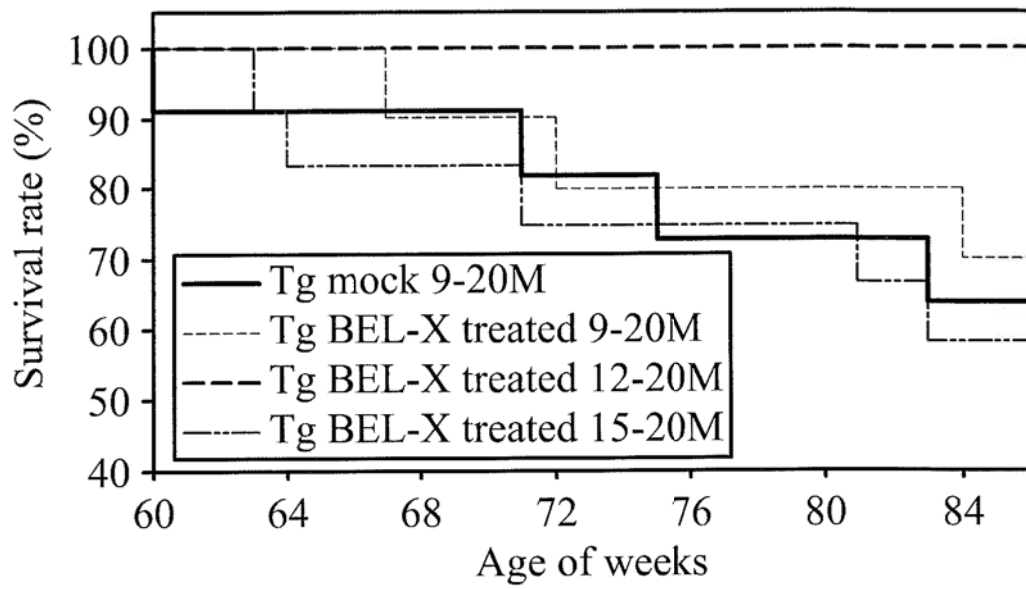


FIG. 8

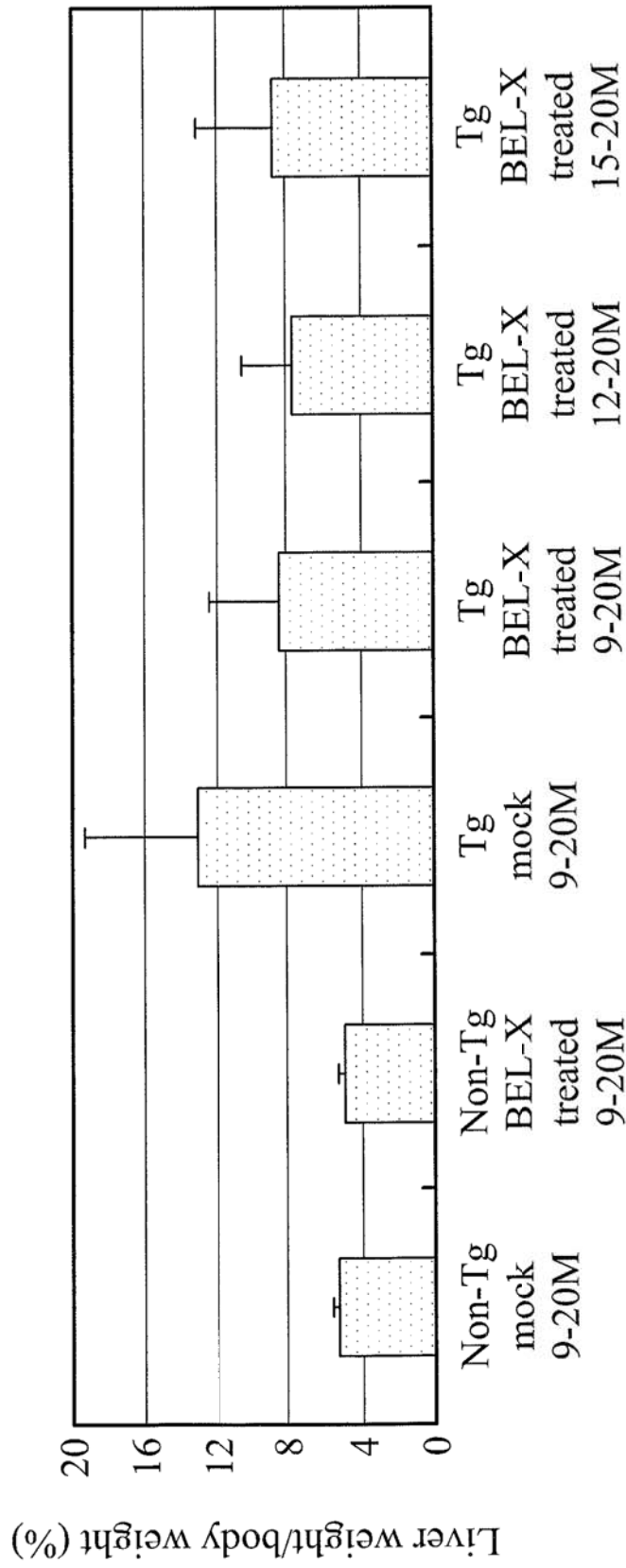


FIG. 9

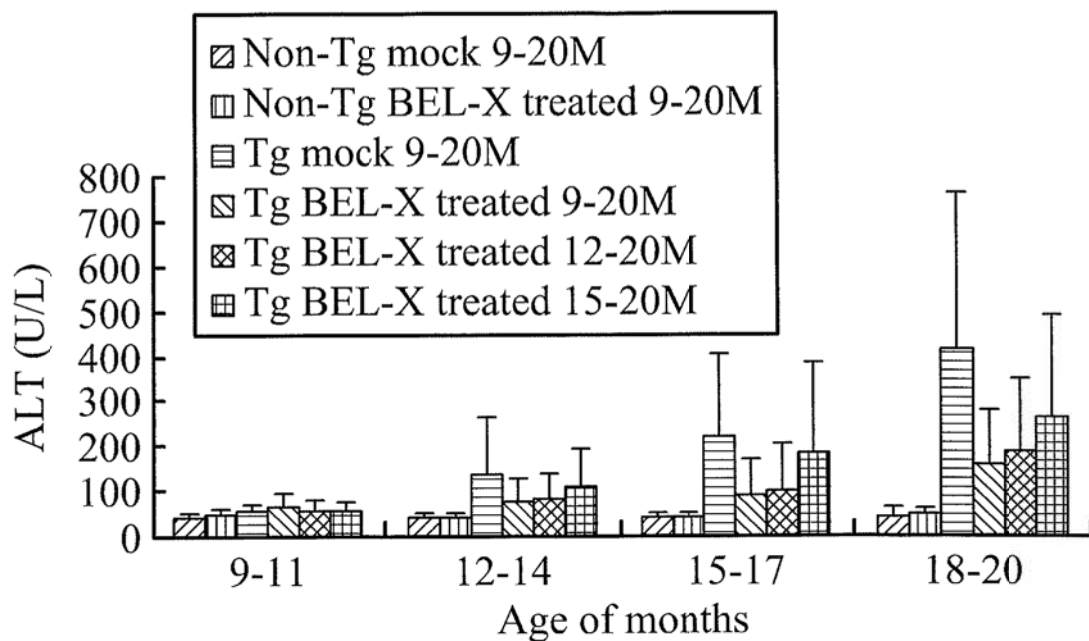


FIG. 10

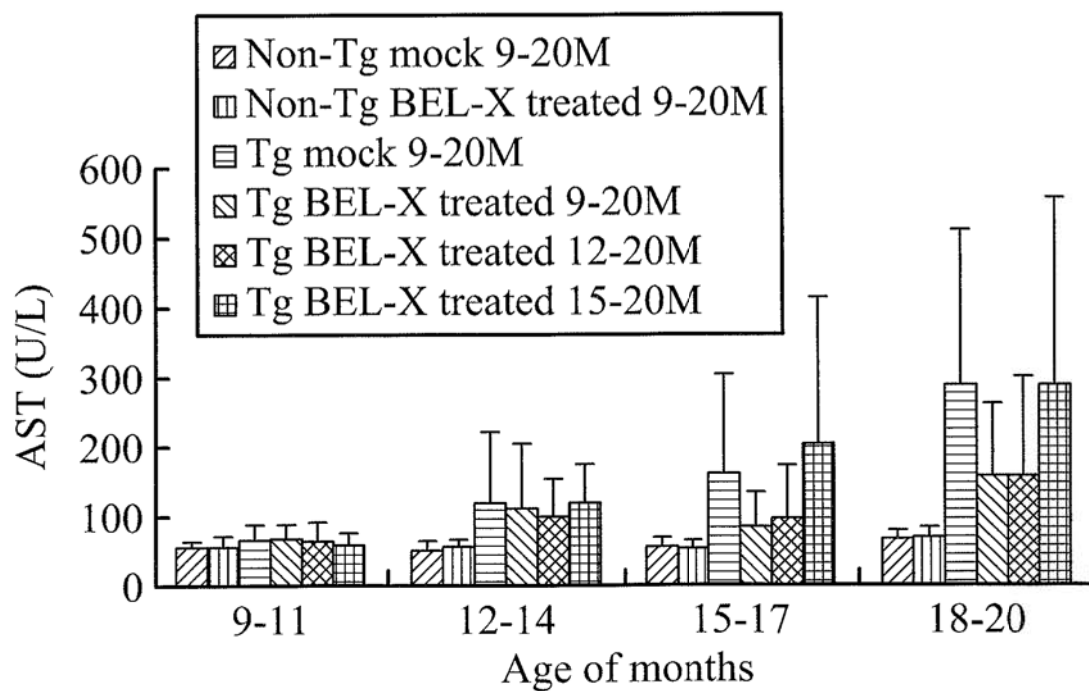


FIG. 11

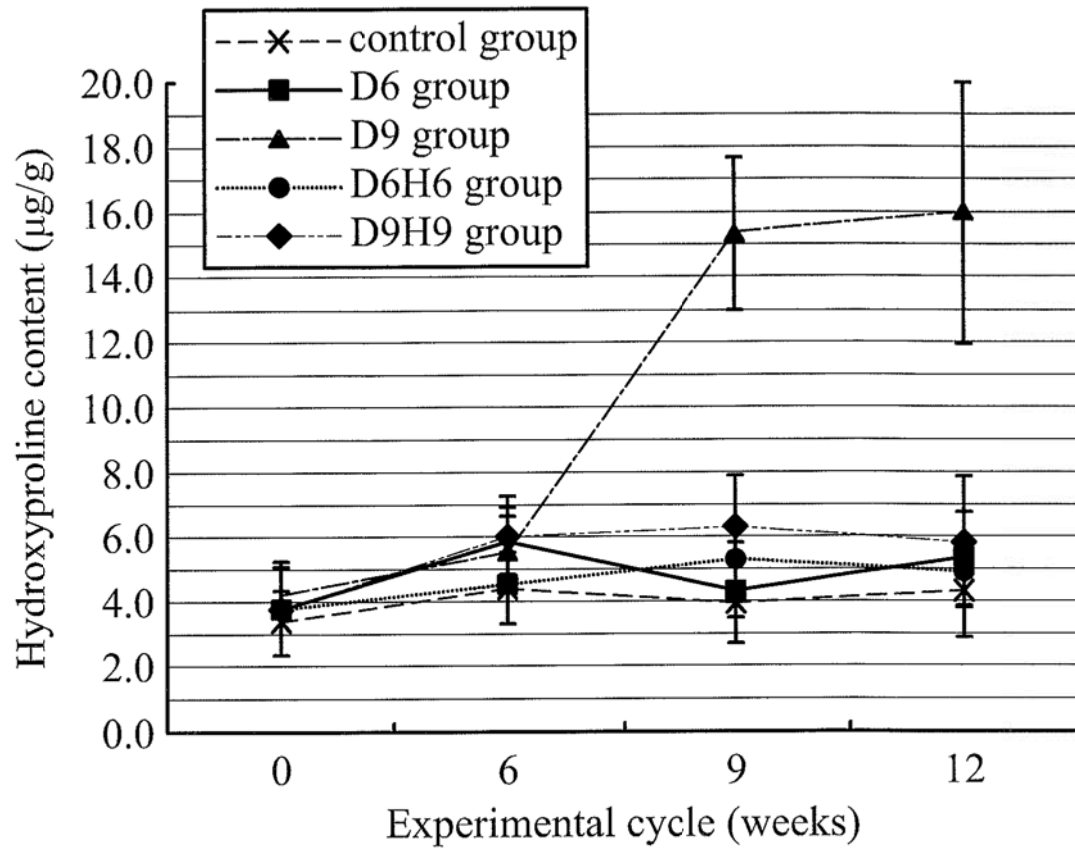


FIG. 12

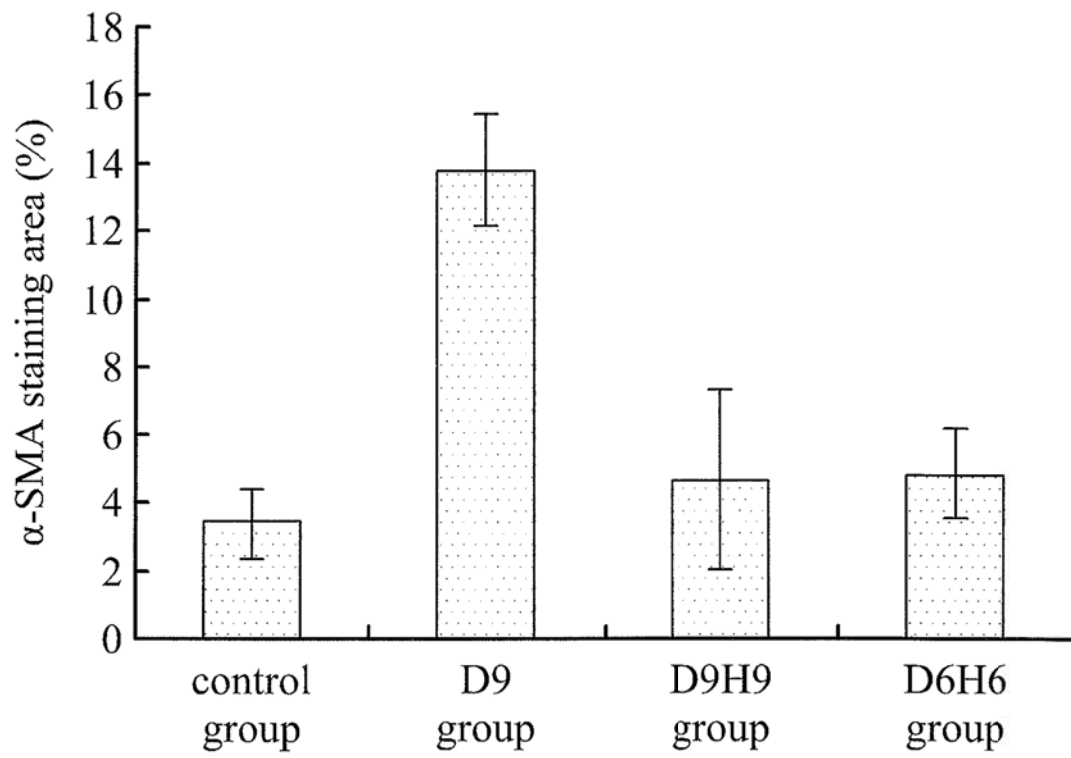


FIG. 13

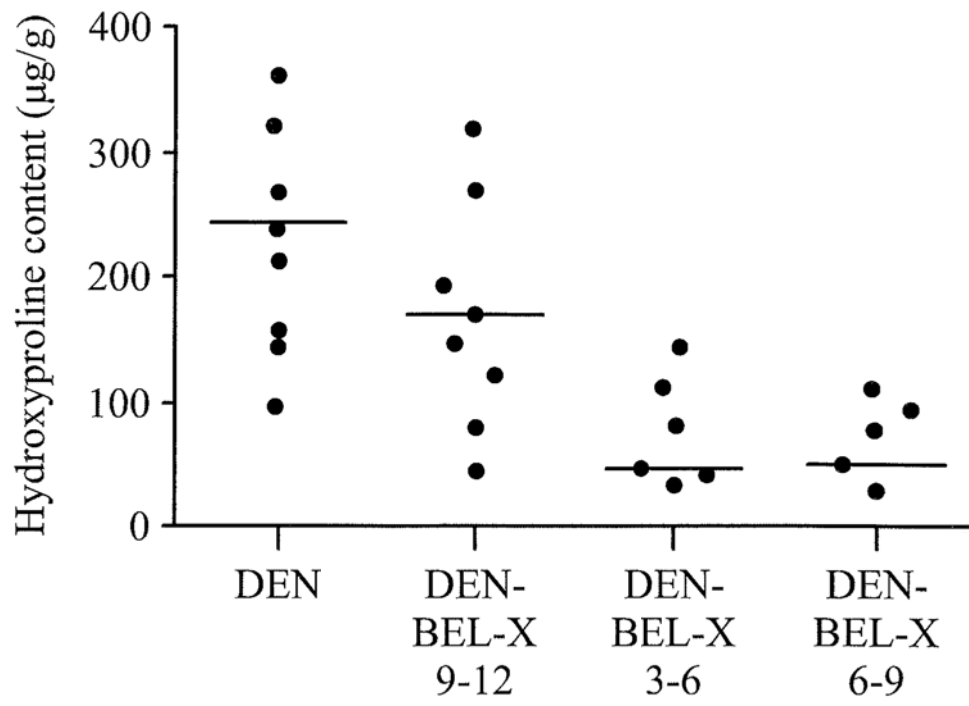


FIG. 14

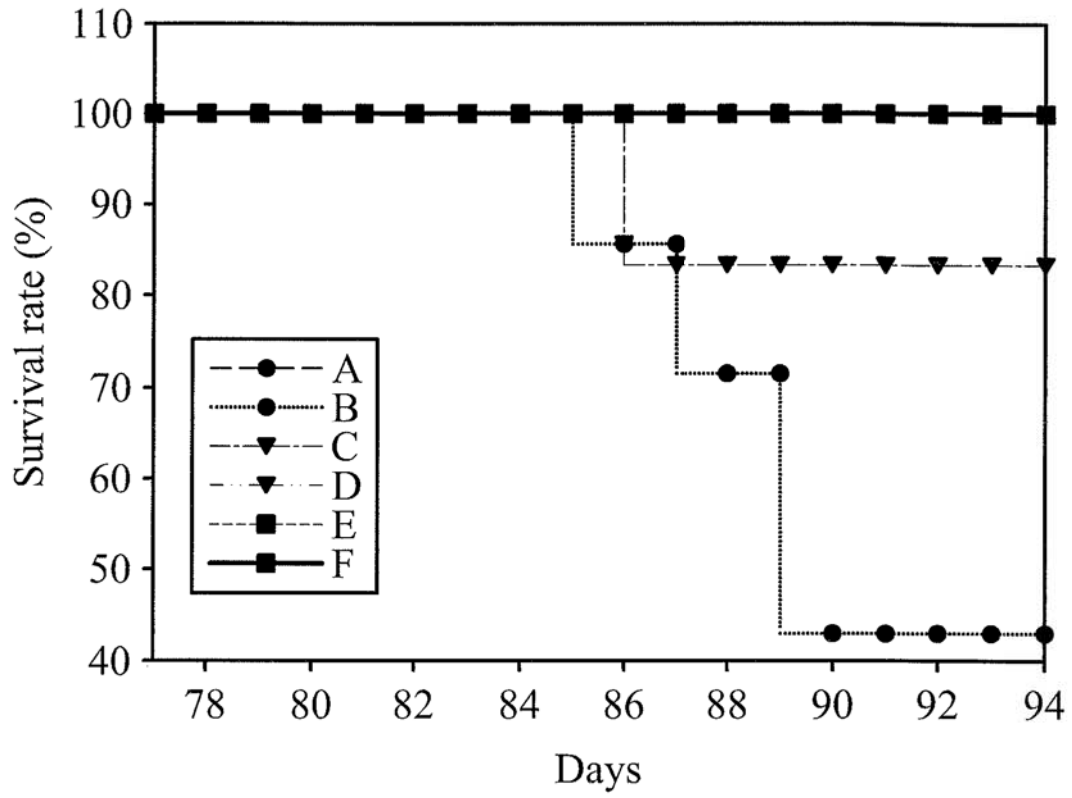


FIG. 15

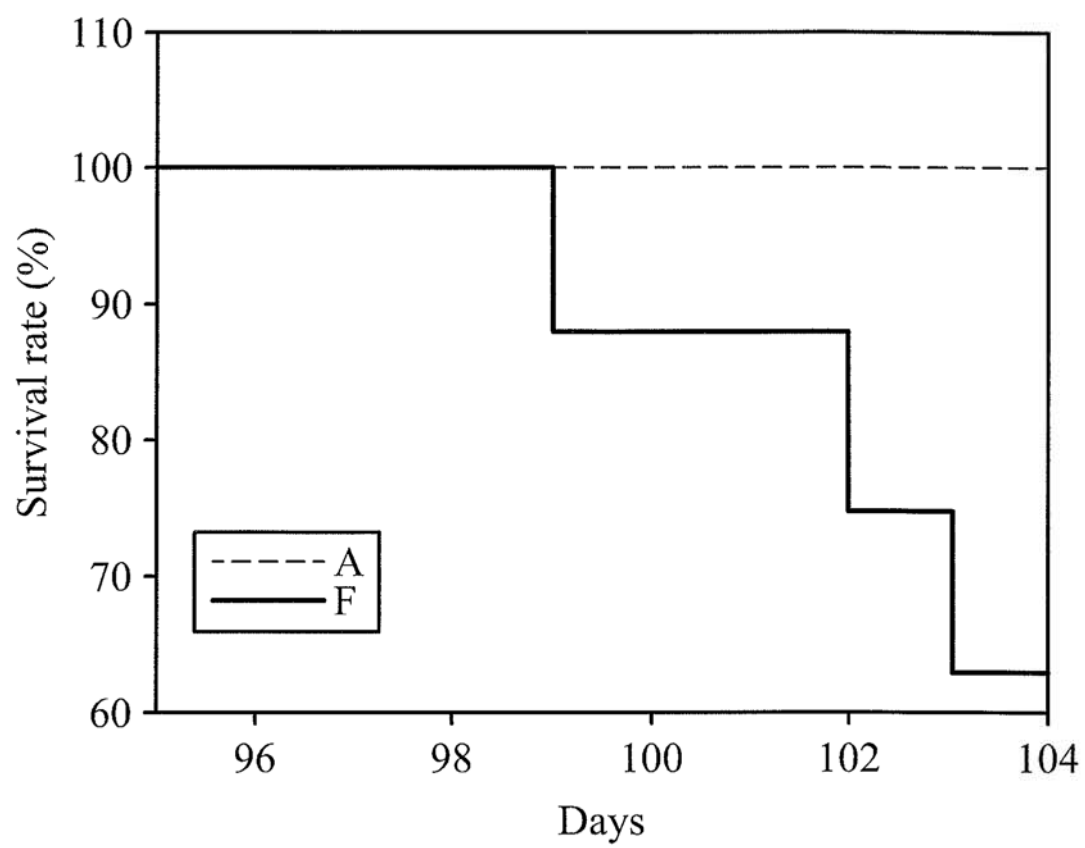


FIG. 16

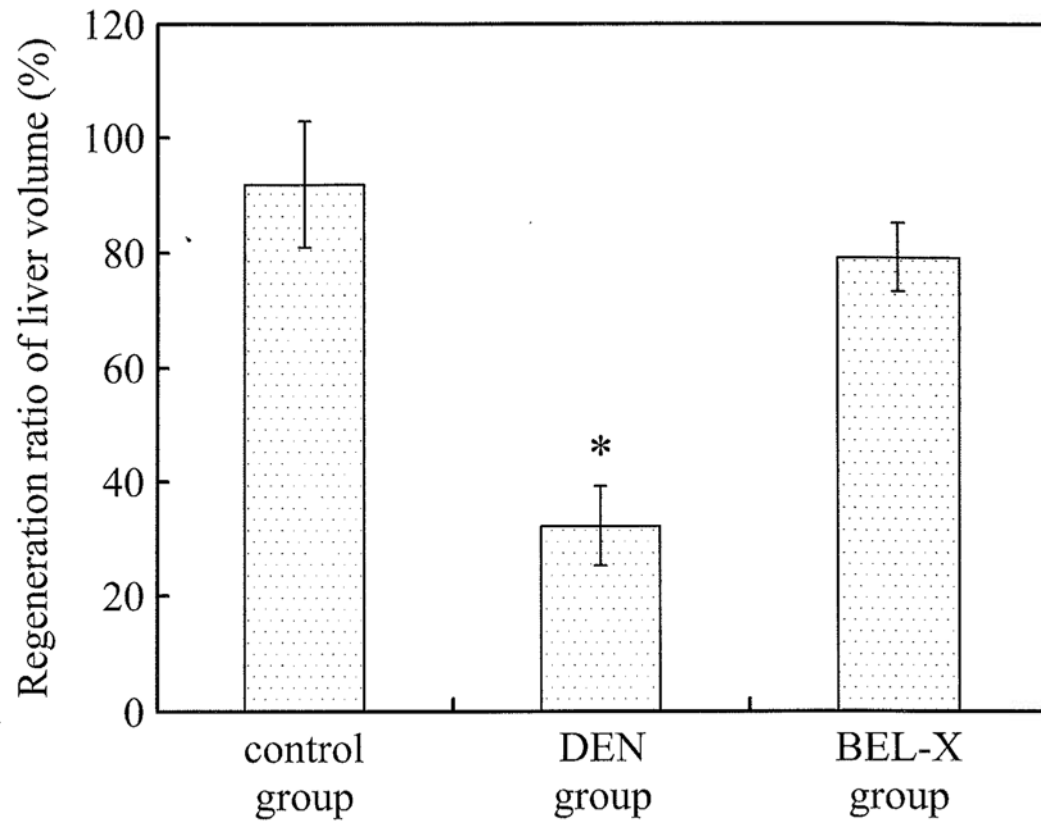


FIG. 17