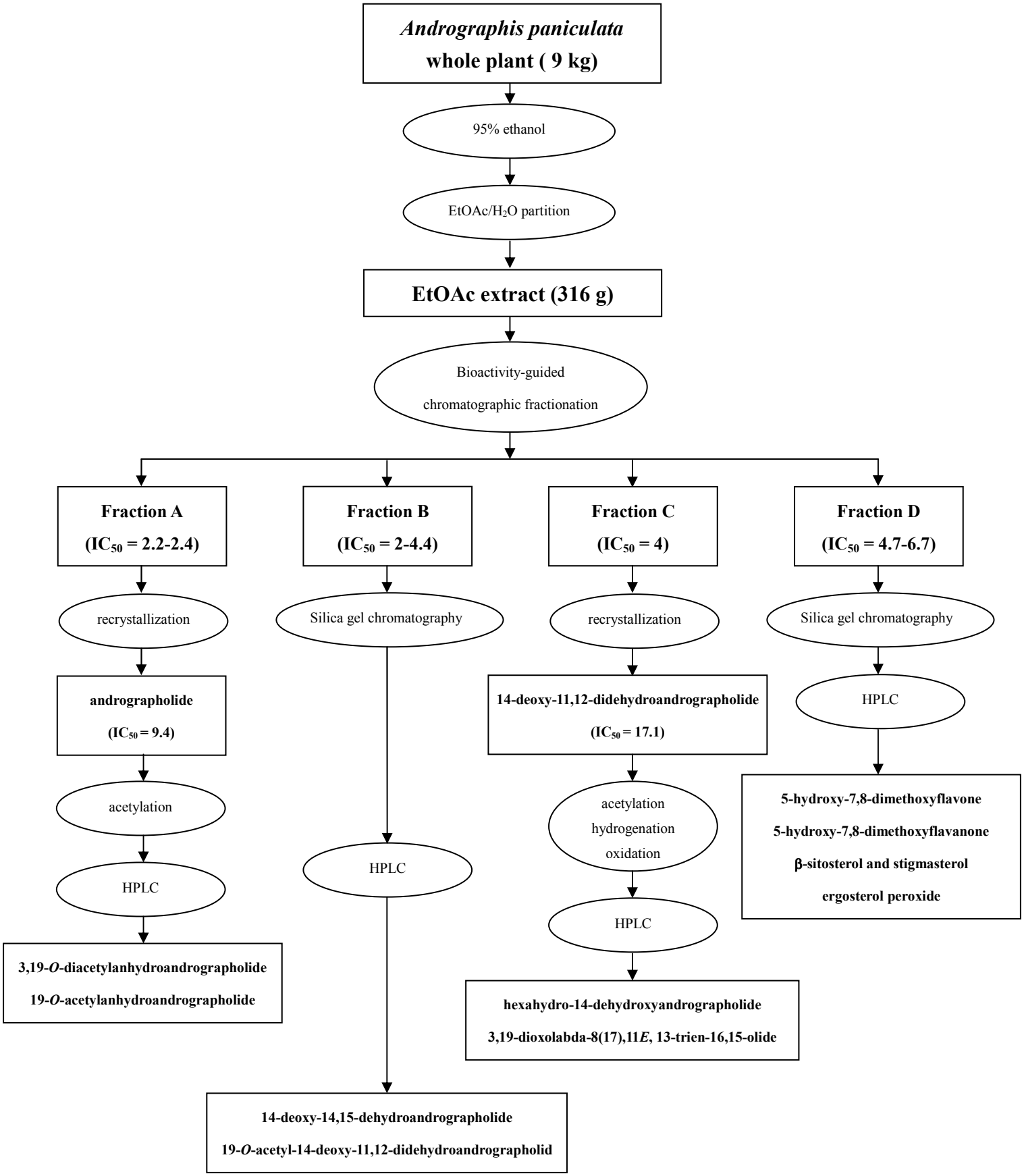
Andrographis paniculata
whole plant (9 kg)
95% ethanol
EtOAc/H_2O partition
EtOAc extract (316 g)
Bioactivity-guided
chromatographic fractionation
Fraction A
(IC_{50} = 2.2-2.4)
Fraction B
(IC_{50} = 2-4.4)
Fraction C
(IC_{50} = 4)
Fraction D
(IC_{50} = 4.7-6.7)
recrystallization
Silica gel chromatography
recrystallization
Silica gel chromatography
andrographolide
(IC_{50} = 9.4)
14-deoxy-11,12-didehydroandrographolide
(IC_{50} = 17.1)
HPLC
acetylation
HPLC
acetylation
hydrogenation
oxidation
HPLC
5-hydroxy-7,8-dimethoxyflavone
5-hydroxy-7,8-dimethoxyflavanone
β-sitosterol and stigmasterol
ergosterol peroxide
3,19-*O*-diacetylanhydroandrographolide
19-*O*-acetylanhydroandrographolide
hexahydro-14-dehydroxyandrographolide
3,19-dioxolabda-8(17),11*E*, 13-trien-16,15-olide
14-deoxy-14,15-dehydroandrographolide
19-*O*-acetyl-14-deoxy-11,12-didehydroandrographolid