The essential oil of *Elephantopus scaber*, a famous medicinal herb from Yangjiang County in Southern China was analyzed for the first time using GC-MS. The major constituents were hexadecanoic acid (42.3%), isopropyl dimethyl tetrahydronaphthalenol (14.1%), $\beta$-sesquiphellandrene (8.3%), octadecadienoic acid (5.5%), and phytol (5.2%).

**Key words:** *Elephantopus scaber*, Essential Oil, GC-MS