ABSTRACT

This experiment was aimed to investigate the influence of Curcuma zedoaria ethanol extract on the growth of benzo[a]pyrene-induced lung tumor in male mice. New born miced were induced with 0.2 μmol, 0.4 μmol, and 0.6 μmol benzo[a]pyrene intraperitoneally at day 1, 8, and 15 after born. On day 21 after born, the mice were distributed into 5 groups. Group 1 was benzo[a]pyrene induced tumor positive control and group 5 was treated with DMSO (solvent). Group 2, 3 and 4 were treated with Curcuma zedoaria ethanol extract consecutively 500 mg/kgBW at 20th, 27th, 34th day. Mice were sacrificed at 16 week age, and lung were collected for examination of tumor focus microscopically. Intensity of carcinogenicity was expressed as number of tumor focus on bronchial and alveolar septum mice lung in each group. From the result it was concluded that Curcuma zedoaria ethanol extract on day 20th, every 2 times a week until 8 weeks can inhibit the growth of lung tumor in male mice.

Keyword : newborn mice, benzo[a]pyrene, Curcuma zedoaria.