

E

	1	2	3	4	5	24
1				2		
3	4			5		

(Hamster cheek pouch)

E

(alpha-tocopherol, 0.5% in mineral oil )

( -carotene lycopene lutein, 0.5% in mineral oil )

( 6 ) DMBA (9,10-Dimethyl-1,2-benz-anthracene, 0.5% in mineral oil) 16 E

DMBA tumor burden (mm<sup>3</sup>)

vitamin E lycopene β-carotene lutein

( 6 ) 4 DMBA 12

(450 ,120 50 300 DMSO )

(papilloma)

(hyperplasia)

β-carotene

lycopene, lutein

E

tumor burden

(mm<sup>3</sup>)

E

E