

Effects of wood creosote on vero toxin-induced damage to rabbit jejunum

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<和文タイトル>

ベロ毒素の腸管粘膜障害に対する木クレオソートの効果

[Abstract]

Vero toxin-containing filter-sterilized culture supernatant of enterohemorrhagic *Escherichia coli* O157:H7 alone or in combination with wood creosote was injected intraluminally into ligated loops (segments) of rabbit jejunum to evaluate a protective effect of wood creosote on damage to the intestinal mucosa induced by the vero toxin. Wood creosote had not effect on the exudative intestinal fluid accumulation caused by the vero toxin-induced damage to the intestinal mucosa. However, upon the microscopical observation of the intestinal mucosa, the damage, as revealed by the shortening of the intestinal villi, appeared to be somewhat protected by the local coadministration of 100 µg/ml wood creosote. We conclude that wood creosote may have some protective effect against the vero toxin-induced damage to intestine.

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