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Mixed Bacteria Vaccine

National Cancer Institute

Source

National Cancer Institute. *Mixed Bacteria Vaccine*. NCI Thesaurus. Code C74063.

A cancer vaccine containing a mixture of killed bacteria with potential immunostimulatory and antineoplastic activities. Mixed bacteria vaccine (MBV or Coley's toxins) consists of a pyrogenic bacterial lysate derived from *Serratia marcescens* and *Streptococcus pyogenes*; the active components in the lysate may be lipopolysaccharide (LPS), a component of the Gram-negative bacterial cell wall of *Serratia*, and streptokinase, an enzyme produced by *Streptococcus pyogenes*. LPS has been shown to stimulate the host humoral immune response and induce the release of various antitumor cytokines such as tumor necrosis factor (TNF) and interleukin-12 (IL-12).