

ABSTRACT

The present invention relates to a composition for use as an immunomodulator comprising small molecular weight components of less than 3000 daltons, and having the following properties: (a) is extractable
5 from bile of animals; (b) is capable of stimulating monocytes and macrophages in vitro and/or in vivo; (c) is capable of modulating tumor necrosis factor production and/or release; (d) contains no measurable IL-1 α , IL-1 β , TNF, IL-4, IL-6, IL-8, GM-CSF or IFN- γ ;
10 (e) shows no cytotoxicity to human peripheral blood mononuclear cells or lymphocytes; and (f) is not an endotoxin. The invention also relates to a method of preparing the composition, its use as an immunomodulator, and its use in the treatment of
15 diseases and conditions having an immunological component, such as cancer.