

lated fluorescer material which has been conjugated to an immunological specie specific to the biological analyte of interest, a means of disrupting the capsule containing the fluorescer and an energy source other than electro-magnetic radiation which is capable of activating the fluorescer. A method for the qualitative and/or quantitative detection of a biological of interest is disclosed, which comprises:

- (a) labeling an immunological specie specific to the analyte of interest with a microencapsulated fluorescer material which is biologically compatible with such specie;
- (b) contacting the microencapsulated fluorescer labeled specie and the biological of interest to form a micro-

encapsulated fluorescer labeled specie/biological complex;

- (c) separating the microencapsulated fluorescer labeled specie/biological complex;
- (d) disrupting the capsule containing the fluorescer label thus freeing it to solution;
- (e) contacting the freed fluorescer with an energy source other than electro-magnetic radiation which is capable of activating the fluorescer label; and
- (f) determining the presence of and/or measuring the quantity of chemiluminescent light emitted.

47 Claims, No Drawings