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(54) Title: METHOD AND SYSTEM FOR DETECTION OF DISEASE AGENTS IN BLOOD

(57) Abstract: The invention principally relates to a method of detecting a disease agent in blood, comprising: (i) creating a sample infra-red spectrum representative of the blood, with one or more spectral components, each having a wavenumber and absorbance value; (ii) providing a reference database of spectral models, each model having one or more database spectral components of a wavenumber and an absorbance value, wherein the database spectral components identify disease agents; (iii) determining whether one or more database spectral components corresponds to one or more sample spectral components; and (iv) compiling a list of corresponding database components identified. Detectable disease agents can include blood borne infectious agents such as human immunodeficiency virus (HIV), hepatitis B or C viruses (HBV, HCV), and malarial parasites (Plasmodium).



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