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[12] **SHORT-TERM PATENT SPECIFICATION**
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<p>[45] Publication Date of granted patent 批予專利的發表日期 06.12.2002</p>	<p>[73] Proprietor 專利所有人 HONG KONG DNA CHIPS LIMITED, 1805-6, 18th Floor, Lu Plaza, 2 Wing Yip Street, Kowloon, Hong Kong 香港基因晶片開發有限公司, 香港</p> <p>[72] Inventor 發明人 KO, LUNG-SANG CHAN, KA YUN LAU, LOK-TING YU, CHEUNG HOI ALBERT COLLINS, RICHARD ANTHONY</p> <p>[74] Agent and / or address for service 代理人及/或送達地址 Deacons, 3/Fl., Alexandra House, Central, Hong Kong 的近律師行, 香港中環歷山大廈 3 樓</p>
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[54] A KIT FOR DETECTING AVIAN INFLUENZA VIRUS TYPE A, SUBTYPES H6, H7 OR H9 用於檢查非致病或致病的甲型流感亞型 H 6, H 7 或 H 9 病毒的成套工具

[57] Current methods for detecting avian influenza virus type A, subtypes H6, H7, or H9, for example cell culture, haemagglutination-inhibition, fluorescent antibody and enzyme immunoassay, and reverse transcriptase polymerase chain reaction (RT-PCR) may have the disadvantages of low sensitivity and low specificity. Furthermore, such methods are relatively difficult to use, and may not be suitable for routine detection on a daily basis. The kit for detecting avian influenza virus type A, subtypes H6, H7, or H9 of this invention may provide a user-friendly alternative that is relatively more sensitive and specific to avian influenza virus type A, subtypes H6, H7, or H9. The detection kit utilises eight specially designed primers A to H for the replication of avian influenza virus type A, subtypes H6, H7, or H9, and type-specific capture probes for immobilising the amplified viral RNA. The detection of avian influenza virus type A, subtypes H6, H7, or H9 virus by the detection kit may be accomplished within one day if desired.

現時檢查甲型流感亞型 H6, H7, 或 H9 病毒的方法 (如細胞培養、血凝反應抑制、熒光抗體及免疫測定、及逆轉錄聚合連鎖反應 [RT-PCR]) 可能有低敏感性及低特殊性的弱點。而且, 此等方法相對難於使用, 及可能不適用於每日例行檢查。本發明用於檢查 H6, H7, 或 H9 病毒的成套工具, 可提供一個容易使用的選擇, 其對 H6, H7, 或 H9 病毒相對地更敏感及具特殊性。該檢查成套工具利用兩個特別設計的引物 A 及 B, 用於複製 H5 病毒, 及一個特殊的捕獲探子, 用於固定擴大的病毒核糖核酸。還有一個引物 C 亦是設計用作檢查致病的 H5 病毒。如有需要, 以檢查成套工具用作檢查 H5 病毒可於一日內完成。

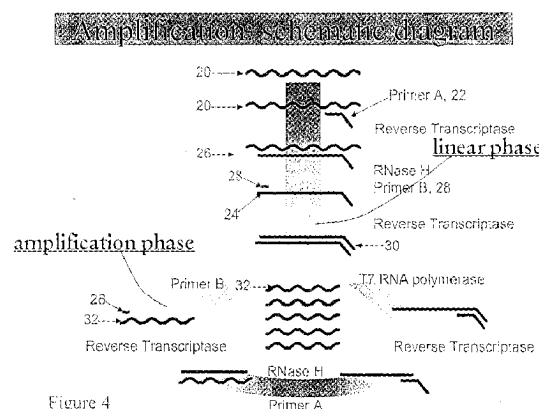


Figure 4