

generate antibodies which can be used to create assay devices for detecting CAF in a body fluid and on the surface of CD8+ cells to determine the condition of an HIV infected individual.

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**ISOLATION AND DIAGNOSIS
OF CORONAVIRUSES AS A
FACTOR IN BOVINE SHIPPING
FEVER, AND A CELL LINE FOR
CULTURING BOTH THOSE
AND OTHER BOVINE
CORONAVIRUSES**

Storz Johannes Baton Rouge, LA, UNITED STATES Assigned to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College

Coronaviruses can be a significant factor in bovine shipping fever. A new human rectal tumor cell line, HRT-18G, is suitable as a host cell line for the propagation of these bovine respiratory coronavirus-shipping fever viruses, and also is well suited for the propagation of other bovine coronaviruses.

5580785

**FIELD-PORTABLE TOXICITY
TESTER**

Stiffey Arthur; Nicolaidis Thomas G Slidell, LA, UNITED STATES Assigned to Lumitox Gulf L C

A portable toxicity tester for use in the field using bioluminescent organisms consisting of a light tight container for housing the necessary flash of light detecting apparatus and the necessary signal processing circuits, digital readout and control panel. A light tight chamber is provided with a removable stirrer assembly which is the stirrer motor housing as well as the light tight cover for the chamber. With the cover removed, a vial containing the necessary inoculated bioluminescence organisms is inserted into a holder in the chamber. Part of the stirrer assembly is a paddle attached to the motor shaft that extends to near the bottom of the vial. The top of

the vial holder extends beyond the outer surface of the cover to insure a light tight seal.

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**DUAL CHAMBER BLOOD
CULTURE BOTTLE WITH
SYRINGE CAPTURE AND
PISTON ASSEMBLY**

Gombrich Peter; Domanik Richard A; Mayer William Chicago, IL, UNITED STATES Assigned to AccuMed Inc

A multi-chambered blood culture device for simultaneously conducting two blood culture tests on a single blood sample. An integrated unit is provided with a syringe port and a piston assembly for receiving a specimen syringe and for enabling a predetermined quantity of blood to be injected into two sample cups. Isolated media compartments contain growth media, one preferably containing an aerobic growth medium and another preferably containing an anaerobic growth medium. Once the blood specimen is fully injected into the sample cups, the sample cups are released into the media compartments, thereby enabling the blood specimens to mix with the respective growth media for testing. Further, means may also be provided to lock the syringe into the integral device in order to facilitate efficient disposal upon completion of testing. Additionally, in the preferred embodiment, outer walls of the device are constructed of transparent plastic so as to enable visual observance of microorganism growth in the respective culture chambers.

5580967

**OPTIMIZED CATALYTIC
DNA-CLEAVING RIBOZYMES**

Joyce Gerald Encinitas, CA, UNITED STATES Assigned to The Scripps Research Institute

The present invention discloses nucleic acid enzymes capable of cleaving nucleic acid molecules, including single-stranded DNA, in a site-specific manner under physiologic conditions, as well as compositions including same. The present invention also discloses methods of