

## Application Information

### AutoLumat LB953 Automatic Tube Luminometer

**A variety of applications have been performed with our**

#### **AutoLumat LB953**



Recent Applications performed by the Cleveland Clinic include Reactive oxygen species as an independent marker of male factor infertility and the Relationship of interleukin-6 with semen characteristics and oxidative stress in vasectomy reversal patients.

Also, "Transmission of Scrapie by Steel-surface-bound Prions" used wires inserted into the brain. The wires were then exposed to 0.2ml of SuperSignal ELIZA Femto Maximum Sensitivity Substrate and then measured luminescence using the LB953 tube luminometer.

Yet another application was Reactive Oxygen Species Production in Seminal Leukocytes. This study evaluated the ability of spermatozoa and leukocytes in semen to produce reactive oxygen species (ROS) by using nitroblue tetrazolium (NBT) staining and to examine the association between NBT staining and levels of ROS as measured by chemiluminescence.

Various other applications include Dual Luciferase, Hydrogen Peroxide level in plants, ATP monitoring, Reporter Gene assays and Luminescent immunoassays.

And of course we cannot forget to mention our participation in sporting events such as The Olympics and The Panamerican Games. In conjunction with WADA our AutoLumat LB953 is the Gold Standard and a key player for Detection of Human Growth Hormone (HGH) Doping in Sports. Every doping lab in the world has an LB953 for this application!

### Further Application Information

#### **Features of the AutoLumat**

- \* Robust instrument that can hold up to 180 samples
- \* can be equipped with 3 injectors and temperature control to 42C.
- \* extremely low background noise resulting in unequaled sensitivity
- \* Sensitivity is <0.7 amole ATP and <0.7 z mole Firefly Luciferase

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