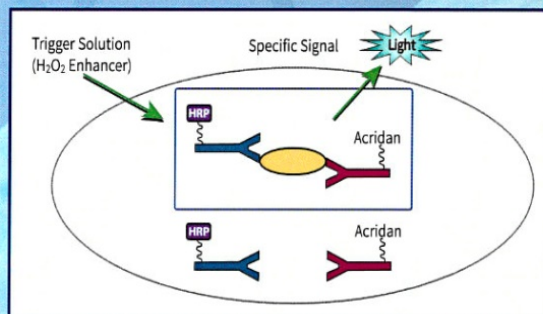


# SPARCL™ Kits

SPARCL™ assays are a faster and simpler alternative to ELISAs. They require a single 30-minute incubation with no wash or substrate incubation steps. In contrast, ELISAs require 2-4 incubations, 1-3 wash steps and take 1.5 to >4 hours.

SPARCL™ sandwich assays use two antibodies; one conjugated to HRP, the other to acridan, a chemiluminescent substrate. When HRP and acridan conjugated antibodies both bind to their target biomarker they are brought into close proximity. With the addition of hydrogen peroxide, HRP catalyzes oxidation of proximal acridan molecules causing a flash of luminescence that is proportional to the biomarker concentration. Acridan molecules distant from HRP cause no luminescence. This principle allows development of a range of rapid and sensitive homogeneous immunoassays.



*Life Diagnostics, exclusively manufactures SPARCL™ immunoassay kits for the following preclinical biomarkers:*

**Acute Phase Proteins: AGP, CRP and Haptoglobin**

**Cardiovascular: Troponin-I and Myoglobin**

**Skeletal Muscle: Troponin-C**

**Immunotoxicity: Anti-KLH**

**Immunology: IgA, IgG and IgM**

**PEG and Anti-PEG**

*MORE ASSAYS ARE IN DEVELOPMENT*