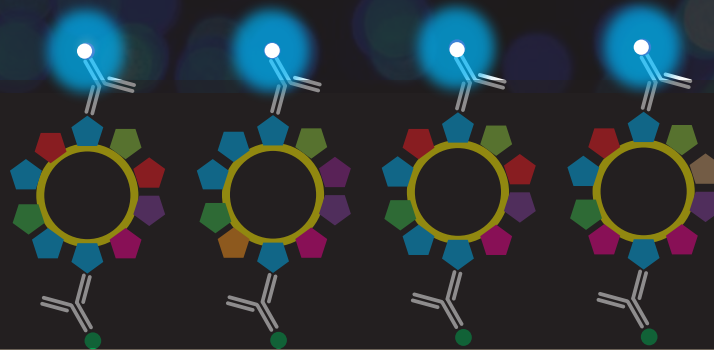


TRIFic™

An exquisitely sensitive **Europium** Time Resolved Immunofluorescence assay for exosome markers Quantitatively detect exosomes in unpurified samples



Use **TRIFic™** to detect exosomes in

- Blood Plasma
- Cell Culture Media
- Urine
- Other Biological Fluids

Kits available for exosome markers:

- CD9
- CD63
- CD81



TRF counts

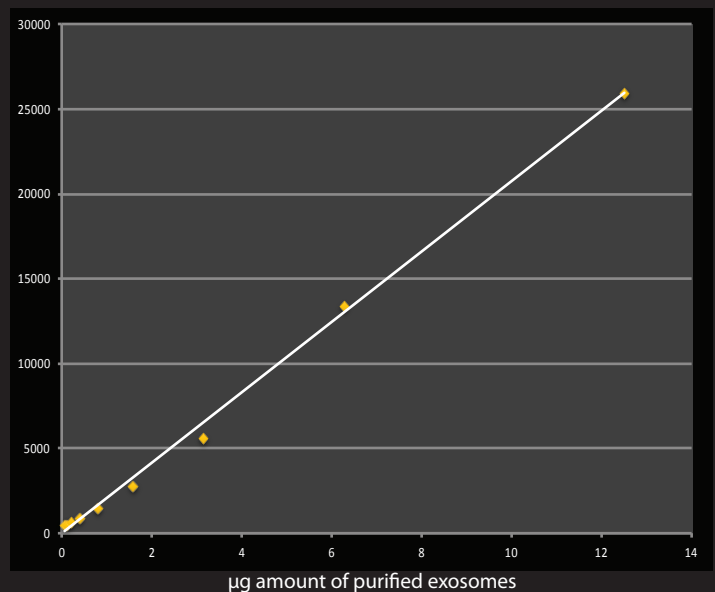


Figure 1. Linearity of readings for purified exosomes demonstrated over several orders of magnitude

To perform the assay requires access to:
(1) Time resolved fluorescence plate reader (essential)
(2) Plate washer (highly recommended)
(3) Plate shaker (highly recommended)

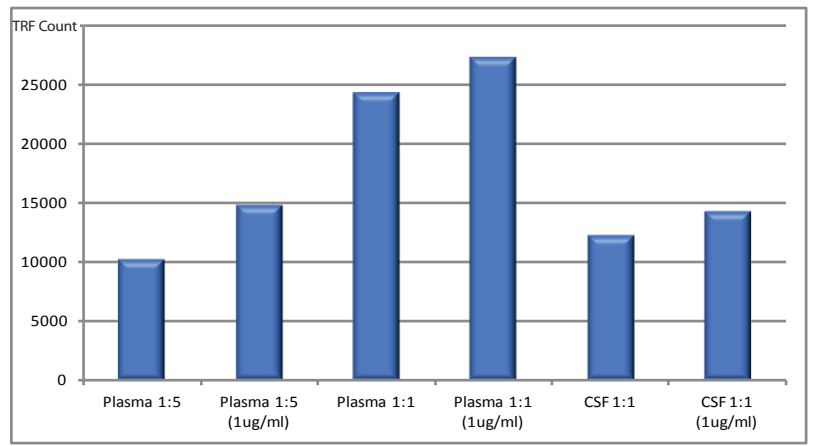
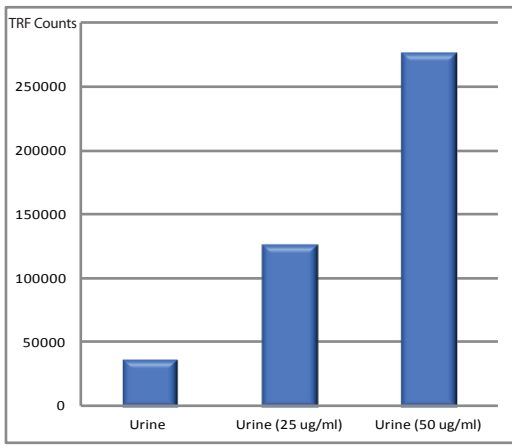


Figure 2. Spiking experiments demonstrate sensitivity of TRIFic™ assay. (A) High concentrations of exosomes were added to urine. (B) A low concentration of exosomes were added to plasma samples diluted in varying amounts of PBS. In each case, 1 µg/ml of purified exosomes is readily detected against the background plasma samples. Similarly, 1 µg/ml of exosomes added to a cerebro-spinal fluid sample is readily detected.

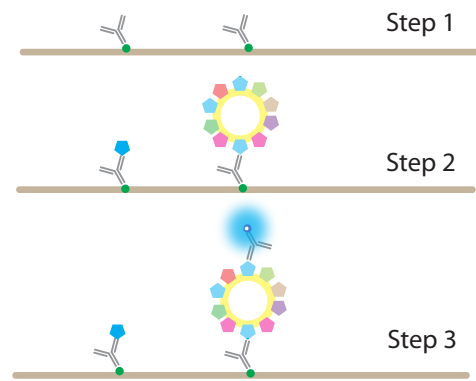
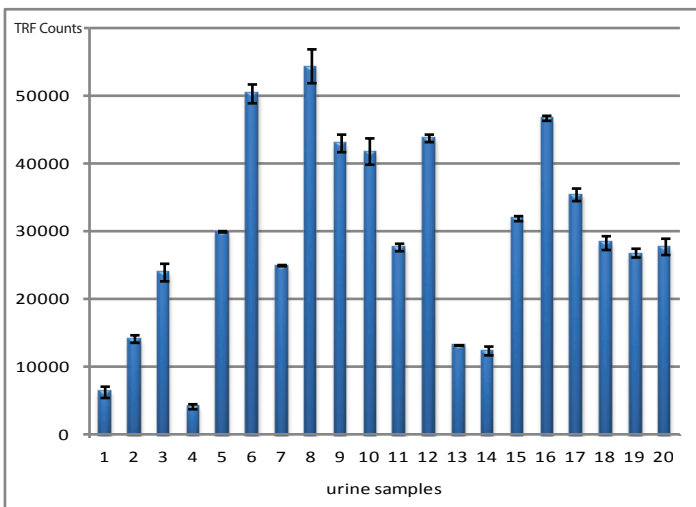


Figure 4. Schematic for TRIFic™ assay. Step 1, Biotinylated antibody is bound to streptavidin coated assay plates. Step 2, Biological samples are added. Exosomes and any free antigen are captured by the antibody. Step 3, Europium labeled antibody is added and binds specifically to exosome antigen. Samples are read in a time resolved fluorescence plate reader.

Figure 3. TRIFic™ analysis of 20 urine samples shows great variation in CD9 content.

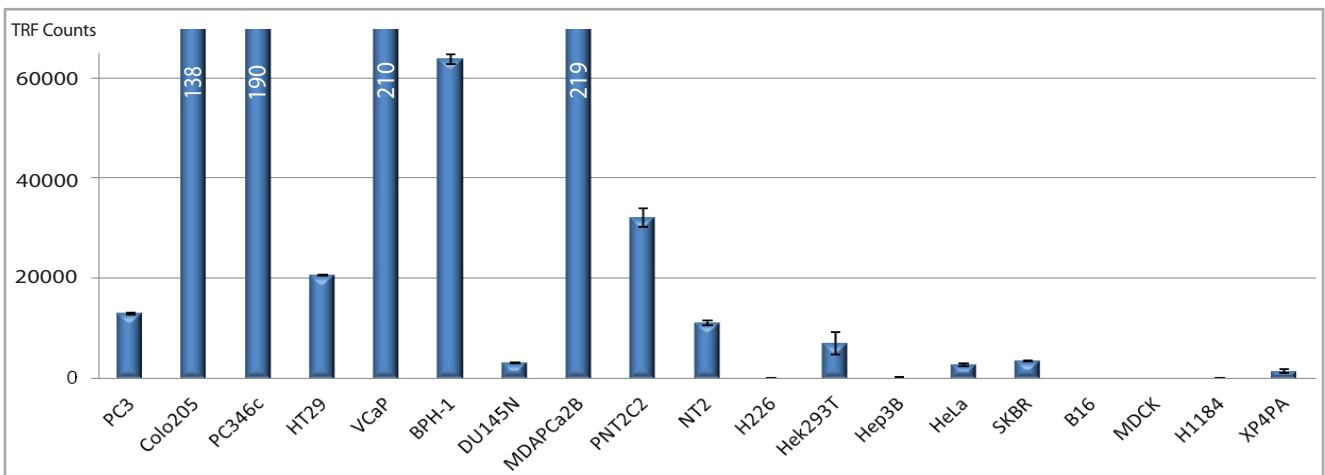


Figure 4. TRIFic™ analysis of CD9 in 19 different cell lines. Off the scale readings are indicated (x1000) on individual bars.



San Diego, CA | Cambridge, UK
www.cellgs.com

Ordering Information

Product	Cat No
TRIFic™ CD9 assay kit (96 well)	EX101
TRIFic™ CD63 assay kit (96 well)	EX102
TRIFic™ CD81 assay kit (96 well)	EX103