

## PROTEIN LABELING TECHNOLOGY

BioPAL has developed *PROTrack*<sup>™</sup> to enable researchers to locate, track, and quantify proteins of interest in *in vivo* systems. *PROTrack* is a line of protein labeling kits and is designed to take advantage of BioPAL's neutron activation technology. The kits are available with different isotopic markers, providing researchers the ability to track the same protein under different conditions in the same model system or track multiple proteins, simultaneously.

The kits are stable and nonradioactive.

In addition to neutron activation tracking technology, several of the lanthanide labels can also be measured by time-resolved fluorescent technology (TRF), and by magnetic resonance imaging (MRI). These products can be found on their associated web pages or the information can be obtained by requesting a BioPAL catalog. Therefore, whenever possible, researchers can take advantage of more than one technology to maximize data output.

### *PROTrack* - Protein Labeling Kits

Each kit contains the bifunctional chelate, lanthanide salt, required buffers, and instructions. The kit is designed to label 10 to 100 mg of protein. The sensitivity of detection by neutron activation technology is a function of many factors, including labeling efficiency and sample composition. Based solely on the properties of neutron activation, we recommend using labels in the following order: Europium, Samarium, Lutetium, Ytterbium and Holmium. Customers are encouraged to contact BioPAL for more information concerning label sensitivity.

#### Catalog Number

PL-00A01	<b><i>PROTrack</i> Samarium</b> .....\$ 600.00 The kit contains the bifunctional chelate, samarium salt, required buffers, and instructions. The kit is designed to label 10 to 100 mg of protein.
PL-00D01	<b><i>PROTrack</i> Ytterbium</b> .....\$ 600.00 The kit contains the bifunctional chelate, ytterbium salt, required buffers, and instructions. The kit is designed to label 10 to 100 mg of protein.
PL-00E01	<b><i>PROTrack</i> Lutetium</b> .....\$ 600.00 The kit contains the bifunctional chelate, lutetium salt, required buffers, and instructions. The kit is designed to label 10 to 100 mg of protein.
PL-00K01	<b><i>PROTrack</i> Europium</b> .....\$ 600.00 The kit contains the bifunctional chelate, europium salt, required buffers, and instructions. The kit is designed to label 10 to 100 mg of protein.
PL-00L01	<b><i>PROTrack</i> Holmium</b> .....\$ 600.00 The kit contains the bifunctional chelate, holmium salt, required buffers, and instructions. The kit is designed to label 10 to 100 mg of protein.

