

CELL LABELING AND TRACKING TECHNOLOGY

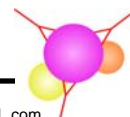
The twenty-first century began with the completion of the human genome project and the dawn of proteomics and systems-biology. These emerging fields will attempt to understand how newly discovered proteins impact human physiology and disease. As researchers progress from molecular- and cellular-based studies to *in vivo* systems, innovative technologies are needed to allow multiple tracking of probes and multiple measurements of functional parameters in *in vivo* models. One arena of research that has emerged due to recent discoveries has been the field of cellular transplantation.

BioPAL has developed *CELLTrack*[™] to aid researchers locate, track, and quantify implanted cells in *in vivo* systems. Within this product category, BioPAL offers several different isotopic labels and different colloidal surfaces. Cellular uptake is *via* nonspecific mechanisms following the incubation of cells with *CELLTrack*. Independent researchers have reported successful application of these products using a variety of different cell lines. All of our colloidal markers can also be measured by electron microscopy (EM). In addition to neutron activation analysis, several of the isotopic labels can also be visualized using time-resolved fluorescent technology.

CELLTrack: Amphoteric colloidal surface.

Catalog Number

CL-600A02-1	<i>CELLTrack</i> Colloidal Samarium (\pm) \$ 425.00 2.0 ml of 600 nm samarium colloid packaged in a 2 ml sealed serum bottle.
CL-600D02-1	<i>CELLTrack</i> Colloidal Ytterbium (\pm) \$ 425.00 2.0 ml of 600 nm ytterbium colloid packaged in a 2 ml sealed serum bottle.
CL-600E02-1	<i>CELLTrack</i> Colloidal Lutetium (\pm) \$ 425.00 2.0 ml of 600 nm lutetium colloid packaged in a 2 ml sealed serum bottle.
CL-300G02-1	<i>CELLTrack</i> Colloidal Iridium (\pm) \$ 425.00 2.0 ml of 300 nm iridium colloid packaged in a 2 ml sealed serum bottle.
CL-50H02-1	<i>CELLTrack</i> Colloidal Gold (\pm) \$ 425.00 2.0 ml of 50 nm gold colloid packaged in a 2 ml sealed serum bottle.
CL-600K02-1	<i>CELLTrack</i> Colloidal Europium (\pm) \$ 425.00 2.0 ml of 600 nm europium colloid packaged in a 2 ml sealed serum bottle.
CL-600N02-1	<i>CELLTrack</i> Colloidal Terbium (\pm) \$ 425.00 2.0 ml of 600 nm terbium colloid packaged in a 2 ml sealed serum bottle.



CELL LABELING AND TRACKING TECHNOLOGY

CELLTrack: Uncharged colloidal surface.

Catalog Number

CL-20A02-2	CELLTrack Colloidal Samarium (uncharged) \$ 425.00 2.0 ml of 20 nm samarium colloid packaged in a 2 ml sealed serum bottle.
CL-20D02-2	CELLTrack Colloidal Ytterbium (uncharged) \$ 425.00 2.0 ml of 20 nm ytterbium colloid packaged in a 2 ml sealed serum bottle.
CL-20E02-2	CELLTrack Colloidal Lutetium (uncharged) \$ 425.00 2.0 ml of 20 nm lutetium colloid packaged in a 2 ml sealed serum bottle.
CL-20K02-2	CELLTrack Colloidal Europium (uncharged) \$ 425.00 2.0 ml of 20 nm europium colloid packaged in a 2 ml sealed serum bottle.
CL-20N02-2	CELLTrack Colloidal Terbium (uncharged) \$ 425.00 2.0 ml of 20 nm terbium colloid packaged in a 2 ml sealed serum bottle.

CELLTrack: Positive colloidal surface.

Catalog Number

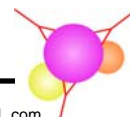
CL-20K02-6A	CELLTrack Europium C6Amine \$ 475.00 2 ml of 20 nm europium containing colloid packaged in a 2 ml sealed serum bottle. 5 mg Eu/ml.
CL-50K01-6A-50	CELLTrack Europium Rhodamine B \$ 450.00 1 ml of 30 nm europium containing colloid packaged in a 2 ml sealed serum bottle. 1 mg Eu/ml.

CELLTrack: Negative colloidal surface.

Catalog Number

CL-50A02-6	CELLTrack Colloidal Samarium (-) \$ 450.00 2.0 ml of 50 nm samarium colloid packaged in a 2 ml sealed serum bottle.
CL-50E02-6	CELLTrack Colloidal Lutetium (-) \$ 450.00 2.0 ml of 50 nm lutetium colloid packaged in a 2 ml sealed serum bottle.
CL-50K02-6	CELLTrack Colloidal Europium (-) \$ 450.00 2.0 ml of 50 nm europium colloid packaged in a 2 ml sealed serum bottle.

CELLTrack: Sample kit.



CELL LABELING AND TRACKING TECHNOLOGY

Because cell types may respond differently to differences in colloidal surfaces, BioPAL offers a *CELLTrack* sampler to allow researchers to evaluate cellular uptake and response.

Catalog Number

CL-Sampler *CELLTrack* Colloidal Sampler\$ 875.00
Select 3 bottles from the 4 categories. The category must be different, but the label may be the same.

