

GADOLINIUM MRI CONTRAST REAGENT

BioPAL has developed Gado *CELLTrack*[™] to aid researchers locate, track, and quantify implanted cells in *in vivo* systems using MRI technology. This product is a 50 nm gadolinium colloid (CL-50P02-6) that is negatively charged. As shown in the figure below, this reagent provides a strong T1 signal that is comparable to the same molar concentration as Gd-DTPA. Like all our colloidal markers, these reagents can also be measured by electron microscopy (EM).

BioPAL's *IVST* reagents, which contain both gadolinium for MRI imaging, as well as additional isotopes for quantification *via* neutron activation can be found in the Neutron Activation section of our catalog and web site.

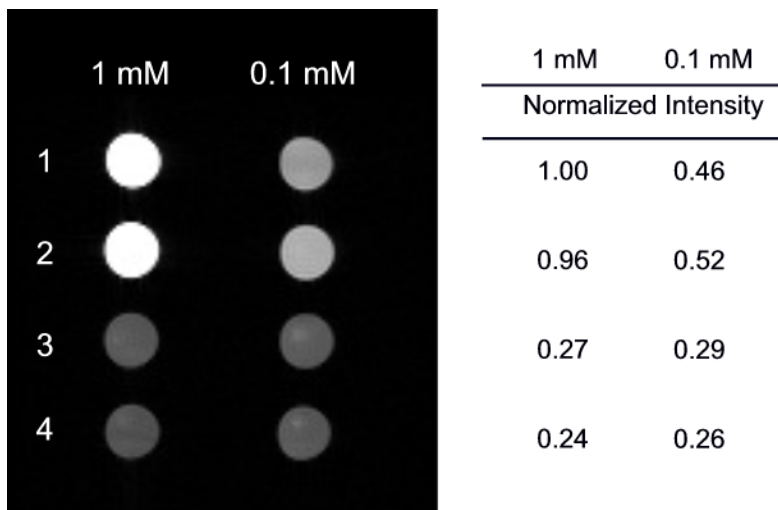


Figure: T1 weighted image from a series of compounds having the same molar concentration are shown on the left and normalized intensity values are tabulated on the right. Row 1 is Gd-DTPA, Row 2 is colloidal gadolinium, Row 3 is colloidal europium having the same size and matrix as colloidal gadolinium, Row 4 is PBS.

Colloidal Gadolinium Cell-Labeling Reagent

Catalog Number

CL-50P02-6	Gado <i>CELLTrack</i>[™] (-)\$ 450.00 2.0 ml of 50 nm gadolinium colloid (10 mg Gd/ml) packaged in a 2 ml sealed serum bottle. Negative charge. Assay Method: MRI and EM
CL-00-01	Poly-L-Lysine\$ 60.00 1.0 ml poly-L-lysine (10 mg/ml) packaged in a 2 ml sealed serum bottle. <u>Applications:</u> The procedure for labeling Poly-L-Lysine onto CL-50P02-6 would be comparable to the procedure described for Molday ION (-) [Cat #: CL-30Q02-6] and may require an initial range finding study for optimal labeling for each cell type. PDF download on BioPAL's web site – Application Note #1 .

