*Torrent*DOTS™ - Enhanced TRF Nanocolloids

Time resolved fluorescent (TRF) technology is emerging as an important tool in drug discovery and diagnostics. Based on our novel chelation and nanocolloid technologies, BioPAL has developed a line of TRF reagents for research applications.

*Torrent***DOTS**™ are nanosized colloids consisting of a highly dense and stable lanthanide core and represent a major breakthrough in colloid technology. The colloidal core of the particle is stabilized by a polymer. The core is densely packed with many atoms of the lanthanide label offering the highest potential sensitivity by TRF. The monolayer contains surface amine groups for covalent labeling of ligands and macromolecules.

Unlike *Radiant***DOTS**™, *Torrent***DOTS** are not intrinsically fluorescent. As a result, the final step of the assay procedure is the introduction of BioPAL's releasing reagent. This reagent is formulated to both (1) breakdown the colloid core and then (2) activate the "torrent" of released lanthanide atoms.

*Torrent***DOTS** are ~20 nm in size and are suspended in a detergent-free aqueous solution.

Catalog Number		
TD-20K02-6A	*Torrent***DOTS** Europium C6Amine 2 ml of a 20 nm europium containing colloid packaged in a 2 ml sealed serum bottle. 5 mg Eu/ml.	$ 475.00
TD-50K01-6A-50	*Torrent***DOTS** Europium Rhodamine B 1 ml of a 30 nm europium containing colloid packaged in a 2 ml sealed serum bottle. 1 mg Eu/ml.	$ 450.00
TD-20N02-6A	*Torrent***DOTS** Terbium C6Amine 2 ml of a 20 nm terbium containing colloid packaged in a 2 ml sealed serum bottle. 5 mg Tb/ml.	$ 475.00
TD-50N01-6A-50	*Torrent***DOTS** Terbium Rhodamine B 1 ml of a 30 nm terbium containing colloid packaged in a 2 ml sealed serum bottle. 1 mg Tb/ml.	$ 450.00

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