

Fluorescent Degradex® PLGA Microspheres

Product Data Sheet

Product Description:

Fluorescent Degradex® PLGA microspheres and nanoparticles are frequently used in imaging and diagnostic applications to detect binding events or signal enhancement. Fluorescent microspheres can also be used for fluid tracing, fluid mechanics studies, cell tracking, phagocytosis studies, latex agglutination tests, fluorescence microscopy, and biomedical technology research. Our standard fluorophores are Green (460/500 nm), Orange (530/582 nm), Red (652/668 nm), and Near-IR (780-820 nm). See the spectrums below.

Near-IR nanoparticles are those having excitation and emission wavelengths over 750nm. Near-IR light has deep penetration and does less damage to tissue and thus is widely used in optical imaging.

To make our standard fluorescent Degradex® PLGA microspheres we use poly(D,L-lactide-co-glycolide) with a Lactic Acid: Glycolic Acid ratio of 50:50 and a molecular weight of 30,000.

By default, the surfaces of PLGA microspheres are slightly negatively charged. Alternate surface charges and/or surface functional groups (such as carboxyl and primary amine groups) are available on a custom basis.

The circulation time, targeting ability, and release profile of these PLGA microspheres can be tailored to your needs by altering the size, polymer matrix, surface functional groups, and surface charge of the particles. For further information on customizing PLGA nanospheres or microspheres, please contact us.

Characteristics:

Size Range: 100nm - 500µm

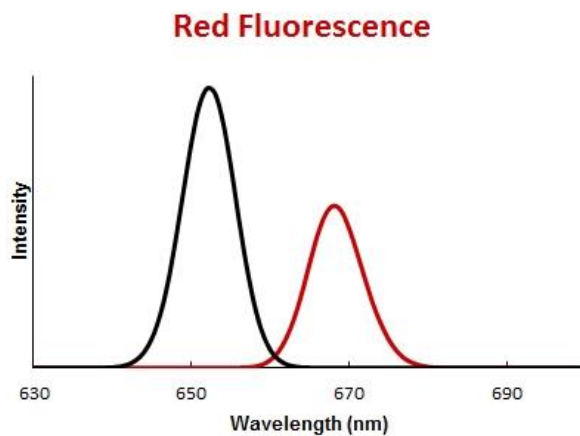
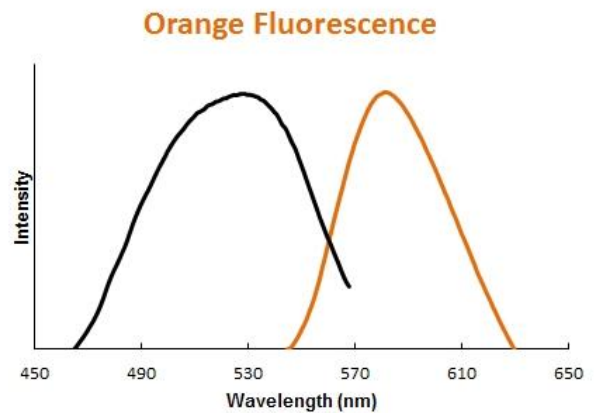
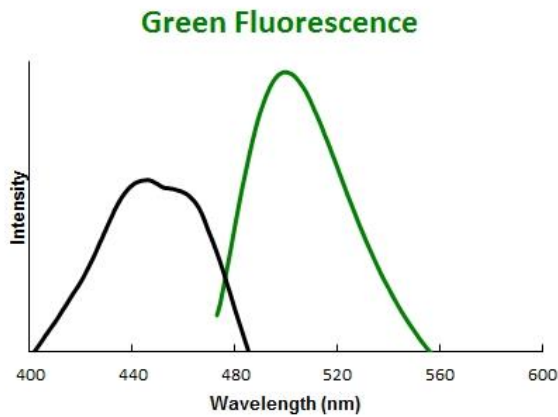
Density: 1.30 -1.35 g/ml

PLGA Information: 50:50 PLGA

Packaging Information:

All of our Degradex® PLGA products are sold supplied as lyophilized (freeze-dried) particles. Alternatively, you may request your product be supplied as a 5 ml 1% suspension (10mg/ml).

Fluorophores:



Product Stability, Storage and Specifications:

This product should be stored in a dry environment at a low temperature. Protect from light.

Product Use:

To re-constitute, add water or buffer to the microspheres and vortex/sonicate to ensure good mixing.

These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.