

## Product Information

### Lanthanide element terbium (Tb<sup>3+</sup>)-encapsulated liposomes

**Cat. No.:** X26-05-ZQ2528

**Size:** 100 mg; 250 mg; 500 mg; 1 g; 5 g

**Synonym:** Terbium(III)-encapsulated LPs; Tb<sup>3+</sup>-encapsulated liposomes; Tb<sup>3+</sup>-loaded liposomal nanoparticles

**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	This specialized lanthanide tracking reference formulation features terbium ion loaded liposomes (Tb <sup>3+</sup> -encapsulated liposomes). The vesicular anatomy features a high-purity phospholipid-cholesterol bilayer shell encapsulating the trivalent lanthanide heavy metal ion terbium (Tb <sup>3+</sup> ) entirely within its central aqueous reservoir. This precise configuration isolates the active lanthanide coordination complex within the core, preventing passive leakage and heavy metal precipitation while introducing distinct time-resolved green photoluminescence tracking parameters characterized by long luminescence lifetimes and narrow atomic emission bands.
<b>Source</b>	Custom synthesis
<b>Functional Group</b>	Terbium ions (Tb <sup>3+</sup> )
<b>Form</b>	Solid or powder
<b>Purity</b>	≥95%
<b>Impurities</b>	No visible impurities to the naked eye.
<b>Identity</b>	HPLC/MS/NMR
<b>Stability</b>	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Storage</b>	Store at -20°C.