

PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: NBT (also known as **Nitro blue tetrazolium, chloride**)**CATALOG NUMBER:** 10008/10008-1/10008-2**MOLECULAR INFORMATION:** C₄₀H₃₀Cl₂N₁₀O₆
Mwt: 817.7
[298-83-9]**PROPERTIES:****Color & Form** Yellow solid
Purity ≥95% by TLC
Solubility Soluble in water and DMSO**STORAGE AND HANDLING:** Stored desiccated at 4°C upon receipt. Protect from light, especially when in solution.**TOXICITY:** Unknown**APPLICATION:** NBT is an oxidant and is widely used in conjunction with BCIP or BCIP derivatives to detect phosphatase activity. NBT is also a substrate for dehydrogenase and other oxidases. Thus, it is often used to assess cell viability, proliferation and cytotoxicity, and is also frequently used in histochemistry studies. The colorless NBT is soluble in water, but forms a dark blue-colored, highly insoluble precipitate after being enzymatically reduced.Ref: *Meth. Enzymol.* **6**, 958(1963); *Anal. Biochem.* **56**, 353(1973); *J. Immunol. Meth.* **179**, 95(1995); *J. Infect. Dis.* **172**, 1153(1995); *J. Appl. Bacteriol.* **74**, 433(1993); *J. Immunol. Meth.* **65**, 55(1983).**FIRST AID:** Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.**Disclaimer:** *Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.*