

DENVILLE

SCIENTIFIC INC.

Certificate of Analysis

Description:	Nitro Blue Tetrazolium, NBT	
Chemical Name:	3,3'[3,3'-Dimethoxy-(1,1'-biphenyl)-4,4'diyl]bis[2-(4-nitrophenyl)-5-phenyl-2H-tetrazolium chloride]	
Catalogue No:	CN-52602	
Lot No:	DB676	
CAS No:	298-83-9	
Chemical Formula:	C ₄₀ H ₃₀ Cl ₂ N ₁₀ O ₆	
Molecular Weight:	817.64	
Test:	Specification:	Result:
Purity:	>98%	99.7%
Appearance:	Yellow crystalline powder	Yellow crystalline powder
Solubility in methyl alcohol :	clear, yellow solution	Passed test (clear, yellow)
Solubility in water:	clear, yellow solution	Passed test (clear, pale yellow)
Solubility in Tris buffer (pH=7.4) :	clear, yellow solution	Passed test (clear, pale yellow)
Water (Karl Fischer):	<5%	1.0%
Loss on drying (p ₂₀ s, 16hrs, vacuumed) :	<10%	8.6%
Sulphated Ash:	<0.2%	0.04%
Molar Absorptivity in methyl alcohol:	At 257nm > 63,000	64,000 (257 nm)
Thin Layer Chromatogram:	Corresponds to standard Nitro-TB	Correspond to standard Nitro-TB
IR Spectrum:	Corresponds with authentic standard	Authentic
Sensitivity:	Report only	Passed test.
Storage/Stability:	Ships on blue ice, on arrival store at 4°C. Keep tightly closed. Protect from light and keep dry.	
Date of Manufacture:	May 24, 2011	
Expiry Date:	Stable for 3 years from date of manufacture when stored as above.	
Date of Despatch:	7/10/11	
Raised by: KRC	Checked by: MWB	