



武汉福鑫化工有限公司

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CERTIFICATE OF ANALYSIS

Products Name	CAS NO.	Batch No.
MPEG-2000-DSPE	147867-65-0	20240215
Mfg. Date	Exp. Date	Package
Feb.,15,2024	Feb., 14,2026	25kg/ Box/Bag/Drum

ITEMS	SPECIFICATIONS	RESULTS
Appearance	white or almost white powder;hygroscopic.	White powder; hygroscopic
	Very soluble in chloroform and methanol, freely soluble in water,insoluble in n-hexane and diethyl ether	Conforms
Identification	The principal spot in the chromatogram obtained with the test solution is similar in position and size to the principal spot in the chromatogram obtained with the reference solution.	Conforms
DSPE	$\leq 0.5\%$	Conforms
1-StePE-MPEG2000	$\leq 1.2\%$	Conforms
Unspecified impurities	$\leq 1.0\%$	Conforms
MPEG2000	$\leq 1.3\%$	Conforms
SA	$\leq 0.5\%$	Conforms
Acetone	$\leq 0.5\%$	Not detected
Methanol	$\leq 0.3\%$	Not detected
Toluene	$\leq 0.089\%$	Not detected
Triethylamine	$\leq 0.032\%$	Not detected
Purity of fatty acid	C18:0 $\geq 99.0\%$	100.0%

Heavy metals	≤ 10 ppm	Conforms
Microbial Limit	Total Aerobic Microbial count: NMT 100CFU/g	<10 CFU/g
	Total Yeasts and molds count: NMT 100CFU/g	<10 CFU/g
	Escherichia coli: Not detected	Not detected
Bacterial endotoxins	≤ 0.1 EU/mg	Conforms
Assay	According to the calculation of anhydrous matter, contains not less than 90.0% of MPEG2000-DSPE (C ₁₃₃ H ₂₆₃ NO _{ss} PNa).	98.6%
Conclusion	The above results are in compliance with registration standard.	

Q.C.: Luo Xiaofeng

Tester: AT02

Re-tester: AT03

