



# INDOFINE Chemical Company, Inc.

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## -CERTIFICATE OF ANALYSIS-

Product: Phleomycin

Code No: BIO-451

CAS No: 11006-33-0

Batch No: 458821

	Specifications	Results
<b>Physico-chemical characteristics</b>		
• Appearance (powder)	Blue	conform
• Appearance (solution)	Blue	Conform
• Absorbance* (600µg/mL at 244nm)	0.25 ± 0.05	0.26
<b>Endotoxin level</b>		
• Chromogenic LAL assay	< 1 EU/mg	0.05
<b>Microbiological assays</b>		
• Antibiogram on bacterial reference strain	> 80%	Conform
• MIC on a panel of sensitive bacteria :	µg/ml	
- Bacillus subtilis ATCC 6633	≤ 9	0.3
- E.coli DH5 alpha	≤ 9	0.9
- E.coli Top10	≤ 9	0.9
- E.coli GT116	≤ 9	0.9
• MIC on a panel of resistant bacteria :	µg/ml	
- E.coli GT116 pCLEF35 Sh	≥ 300	900
- E.coli GT116 pCLEF35 ShS	≥ 300	900
- E.coli Top10 pcDNA/Zeo	≥ 300	900
<b>Cytotoxicity on referenced Cell lines</b>		
• Sensitive cell lines :	µg/mL	
- B16	≤ 24	12
- 293 PS	≤ 24	12
• Resistant cell lines :	µg/mL	
- 293PS/pZAP/IFNβ	> 96	>96

\*Optical Path length = 0.1cm