

## CERTIFICATE OF ANALYSIS

PRODUCT:	<b>Nocodazole</b> [Methyl[5-(2-thienylcarbonyl)-1H-benzimidazol-2-yl]carbamate] C <sub>14</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S, M.W. 301.3, CAS# [31430-18-9]
PRODUCT NUMBER:	N-1177
LOT NUMBER:	G1043C
APPEARANCE:	White to off-white solid
SOLUBILITY:	Soluble in DMSO (10 mg/ml, warm)
PURITY (TLC):	> 98%
IDENTITY:	Conforms ( <sup>1</sup> H-NMR)
APPLICATION NOTES:	Synthetic reversible microtubule inhibitor. An antimitotic agent that disrupts microtubules by binding to β-tubulin and thereby inhibiting microtubule dynamics, disruption of mitotic spindle function, and fragmentation, and fragmentation of the Golgi complex. Arrests cell cycle at G <sub>2</sub> /M phase. Stimulates the intrinsic GTPase activity of tubulin. Activates the JNK/SAPK signaling pathway and induces apoptosis in a variety of cell lines. Cell permeable.
STORAGE & HANDLING:	Store desiccated at +4°C. <b><u>WARNING: MAY BE MUTAGENIC!</u></b> CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: SK