

ICG **INDOFINE Chemical Company, Inc.**

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

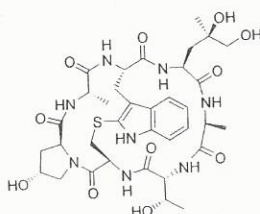
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

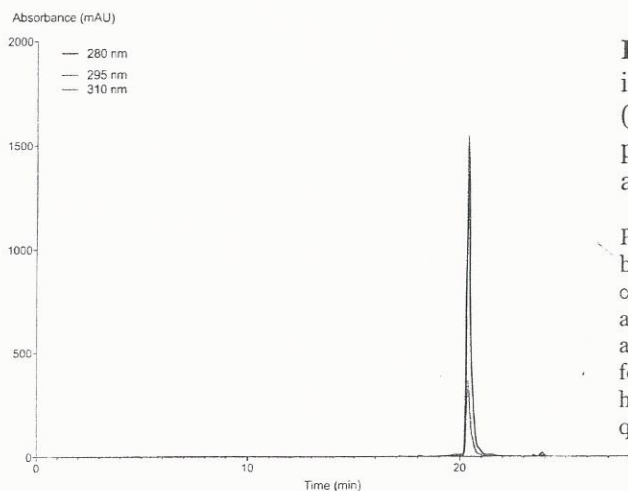
e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	BIO-934	<u>Chemical Formula:</u>	$C_{35}H_{48}N_8O_{11}S$
<u>Product Name:</u>	PHALLOIDIN from <i>Amanita phalloides</i>	<u>Molecular Weight:</u>	788.88
<u>CAS Number:</u>	[17466-45-4]	<u>Storage:</u>	Store at 2-8°C

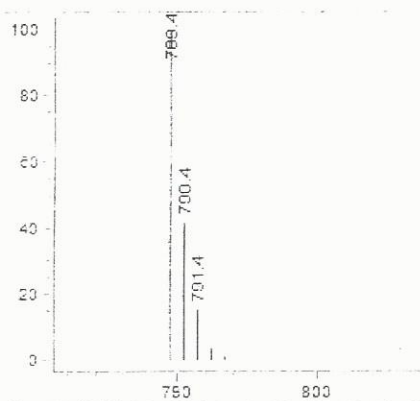


Structure of Phalloidin, a bicyclic heptapeptide with unique tryptathionine crossbridge. Potent inhibitor of actin depolymerization through high affinity binding to F-actin.
Purity > 90% Molecular weight = 788.3



HPLC separation of Phalloidin. Shown is the UV absorbance at multiple wavelengths (280, 295, and 310 nm) of a separation of purified phalloidin on a C18 column. By peak areas, phalloidin is >95% pure.

Purified peptide may contain traces of ammonium acetate buffer from the purification process. Measurement of α -amanitin quantities is best performed by spectroscopy at 305 nm and determination of concentration using the aqueous extinction coefficient of $14,600 \text{ mol}^{-1} \text{ cm}^{-1} \text{ L}^*$, followed by freeze-drying. Traces of buffer and the highly hygroscopic nature of *Amanita* bicyclic peptides preclude quantification by dry weight.



Mass spectroscopy of Phalloidin. Shown are mass spectroscopic peaks and associated masses for the phalloidin peak, consistent with the mass of phalloidin ($M+H^+ = 789.4$).