

CERTIFICATE OF ANALYSIS

PRODUCT:	Ryanodine [1 <i>H</i> -Pyrrole-2-carboxylic acid, (3 <i>S</i> ,4 <i>R</i> ,4 <i>aR</i> ,6 <i>S</i> ,7 <i>S</i> ,8 <i>R</i> ,8 <i>aS</i> ,8 <i>bR</i> ,9 <i>S</i> ,9 <i>aS</i>)- dodecahydro-4,6,7,8 <i>a</i> ,8 <i>b</i> ,9 <i>a</i> -hexahydroxy-3,6 <i>a</i> ,9-trimethyl-7-(1- methylethyl)-6,9-methanobenzo[1,2]pentaleno[1,6- <i>bc</i>]furan-8-yl ester] C ₂₅ H ₃₅ NO ₉ , M.W. 493.55, CAS# [15662-33-6]
PRODUCT NUMBER:	R-1044
LOT NUMBER:	G1095
APPEARANCE:	White solid
SOLUBILITY:	Soluble in ethanol to 10mM and DMSO to 25mM
PURITY (HPLC):	99.3%
IDENTITY (¹ H-NMR):	Consistent with structure.
MASS SPECTRUM:	Consistent with structure.
OTHER DATA:	Ca ²⁺ channel activator. Potent inhibitor of Ca ²⁺ release from sarcoplasmic reticulum (IC ₅₀ values are 10 and 2.8 nM in skeletal and cardiac muscle respectively). Isolated from <i>Ryania speciosa</i> , Flacourtiaceae
STORAGE & HANDLING:	Store desiccated at -20°C. PROTECT FROM LIGHT! <u>WARNING:</u> HARMFUL! DANGEROUS FOR THE ENVIRONMENT! CAUTION: For research 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: EV