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## CERTIFICATE of ANALYSIS

**PRODUCT:** **Castanospermine**  
(1S,6S,7R,8R,8AR)-OCTAHYDRO-1,6,7,8-  
INDOLIZINETETROL  
C<sub>8</sub>H<sub>15</sub>NO<sub>4</sub>, M.W. 189.2, CAS# [79831-76-8]

**PRODUCT NUMBER:** C-1501

**LOT NUMBER:** J1165

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** Soluble in DMSO

**PURITY (TLC):** 99%

**MELTING POINT:** 121 - 214°

**NMR:** Conforms

**DESCRIPTION:** Potent inhibitor of  $\alpha$ - and  $\beta$ -glucosidases. Exhibits antiviral properties. Inhibits HIV infectivity. Inhibits thyroglobulin secretion. Displays antitumor activity and anti-angiogenic activity. Inhibits protein glycosylation.

**STORAGE & HANDLING:** Store desiccated at +4°C.

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