



CERTIFICATE of ANALYSIS

PRODUCT:	Streptozotocin [Streptozocin; 2-Deoxy-2-(3-methyl-3-nitrosoureido)-D-glucopyranose; STZ] C ₈ H ₁₅ N ₃ O ₇ , M.W. 265.2, M.I. 14: 8832; CAS# [18883-66-4]
PRODUCT NUMBER:	S-2044
LOT NUMBER:	B1489
APPEARANCE:	Pale yellow solid
SOLUBILITY:	Soluble in water or 100% ethanol
PURITY (HPLC):	99.5%
UV/Vis:	λ_{max} : 228nm (0.001% solution in water)
IDENTITY:	Confirms (determined by IR)
ELEMENTAL ANALYSIS (C, H, N):	Identical to standard reference
MELTING POINT:	121°C
RESIDUE ON IGNITION/ SULFATED ASH:	0.02%
OPTICAL ROTATION:	$[\alpha]_{\text{D}}$ = +39.0° (c = 1% in water)
α-ISOMER CONTENT:	85%
HEAVY METALS:	≤20 ppm

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LOSS ON DRYING 0.22%

PRODUCT DESCRIPTION: Widely used diabetes inducer in rodents. Inhibition of b-cell O-GlcNAcase by streptozotocin is the mechanism that accounts for its diabetogenic toxicity. N-nitroso-containing antibiotic, acting as a nitric oxide (NO) donor. Potent methylating agent for DNA.

STORAGE & HANDLING: Keep cool and dry at -20°C. Solutions are stable for 3 months when stored at -20°C.

WARNING: TOXIC! CARCINOGENIC!

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: DD