



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-214827
Lot Number: SAMPLE
Product Name: D-Ribulose 1,5-bisphosphate sodium salt
CAS Number: 14689-84-0 free acid
Molecular Formula: $C_5H_{12}O_{11}P_2 \cdot xNa$
Molecular Weight: 310.09

Test	Specification	Result
Appearance	White to off white powder	White powder
Identification (1H-NMR)	Consistent with structure	Complies
Identification (13C-NMR)	Consistent with structure	Complies
Identification (31P-NMR)	Consistent with structure	Complies
Purity (TLC)	$\geq 90\%$	96%
Solubility	Clear colorless to light yellow at 50 mg/ml in water	Clear colorless
Solvent Content (GC)	$\leq 5\%$	1%
Phosphorus	14 - 17% (dry basis)	16%
Sodium Content	17.1 - 24.6% (dry basis)	22.7%
Water Content (KF)	$\leq 16\%$	5%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com