



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-221467  
Lot Number: SAMPLE  
Product Name: D-Arabinose 5-phosphate disodium salt  
CAS Number: 89927-09-3  
Molecular Formula:  $C_5H_9O_8PNa_2$   
Molecular Weight: 274.07

| 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 (HPLC)            | $\geq 95 \%$                                                    | 95 %         |
| Solubility               | Clear Colorless solution at 25 mg plus 0.5 mL, H <sub>2</sub> O | Complies     |
| Solvent Content (GC)     | $\leq 5 \%$                                                     | 1 %          |
| Impurity                 | Ribose 5-Phosphate $\leq 1.5 \%$ by HPLC                        | 0.2%         |
| Phosphorus               | 10 - 14 % (Dry Basis)                                           | 13 %         |
| Sodium                   | 13.1 - 18.5 % (dry basis)                                       | 16.7 %       |
| Water Content (KF)       | $\leq 18.0 \%$                                                  | 10.4%        |

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.

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