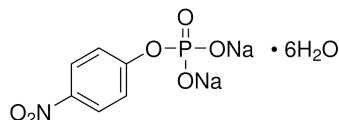


Certificate of Analysis

Product Name : Phosphatase substrate powder
Product Number : P4744-1G
Batch Number : 0000474945
 Source Batch : 0000323731
 CAS Number : 333338-18-4
 MDL Number : MFCD00066288
 Storage Temperature : -20°C
 Molecular Formula : $C_6H_4NNa_2O_6P \cdot 6H_2O$
 Formula Weight : 371.14 g/mol
 Recommended Retest Date : May 2027
 Quality Release Date : 29 May 2024



Test	Specification	Result
Appearance (Color)	White to Slightly-Yellow	White
Appearance (Form)	Powder	Powder
Solubility (Turbidity)	Clear to Slightly Hazy	Clear
(100 mg/ml in water)		
Solubility (Color)	Conforms	Conforms
light yellow to light yellow green (100 mg/ml in water)		
Solubility (Form)	Solution	Solution
(100 mg/ml in water)		
UV Absorbance 410nm	< 0.030	0.015
Suitability	Suitable	Suitable
Suitable for use as a substrate for alkaline phosphatase assays		
Purity (HPLC)	≥ 97.00 %	99.98 %
Water (by Karl Fischer)	28.2 - 30.0 %	29.6 %
Sodium (Na) ICP-Atomic Emission	11.7 - 13.0 %	12.7 %
Phosphorus (P) ICP-Atomic Emission	8.0 - 8.6 %	8.5 %
Free P-Nitrophenol Tested by HPLC	≤ 0.100 %	0.004 %
Inorganic Phosphorus	≤ 0.1 %	0.0 %

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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Product P4744-1G
Batch 0000474945



Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

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