

# IC Application Note No. N-55

<b>Title:</b>	HEDPA, PBTC and NTP
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<b>Summary:</b>	Determination of HEDPA, PBTC and NTP using anion chromatography with UV/Vis detection (330 nm) after post column reaction (PCR).
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<b>Sample:</b>	Aqueous solutions
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<b>Sample Preparation:</b>	–
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<b>Column:</b>	6.1005.320 Metrosep A Supp 3
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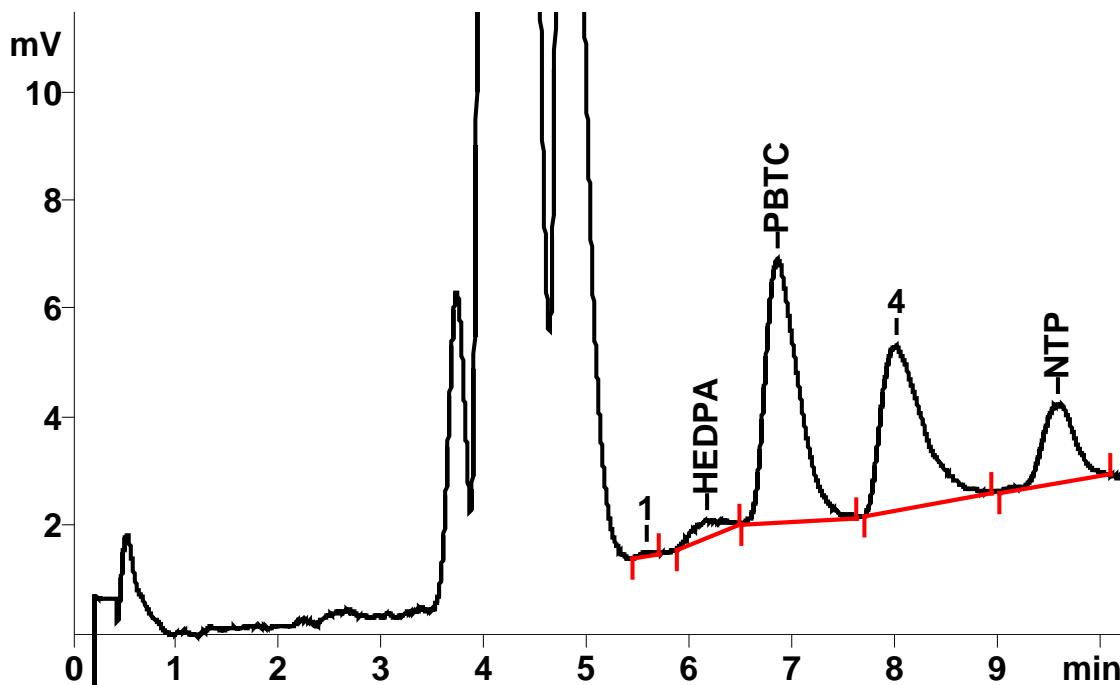
<b>Eluent:</b>	15 mmol/L nitric acid
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<b>Flow:</b>	0.8 mL/min
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<b>PCR reagent:</b>	1.0 g/L Fe(NO <sub>3</sub> ) <sub>2</sub> , 2% perchloric acid
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<b>PCR Flow:</b>	0.5 mL/min
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<b>Injection Volume:</b>	250 µL
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<b>Results:</b>	HEDPA mg/L	PBTC mg/L	NTP mg/L
Sample	2.35	2.51	2.67

HEDPA = 1-hydroxyethylidene-1,1-diphosphonic acid

PBTC = 2-phosphonobutane-1,2,4 tricarboxylic acid

NTP (AMP) = aminotri(methylene phosphonic acid)