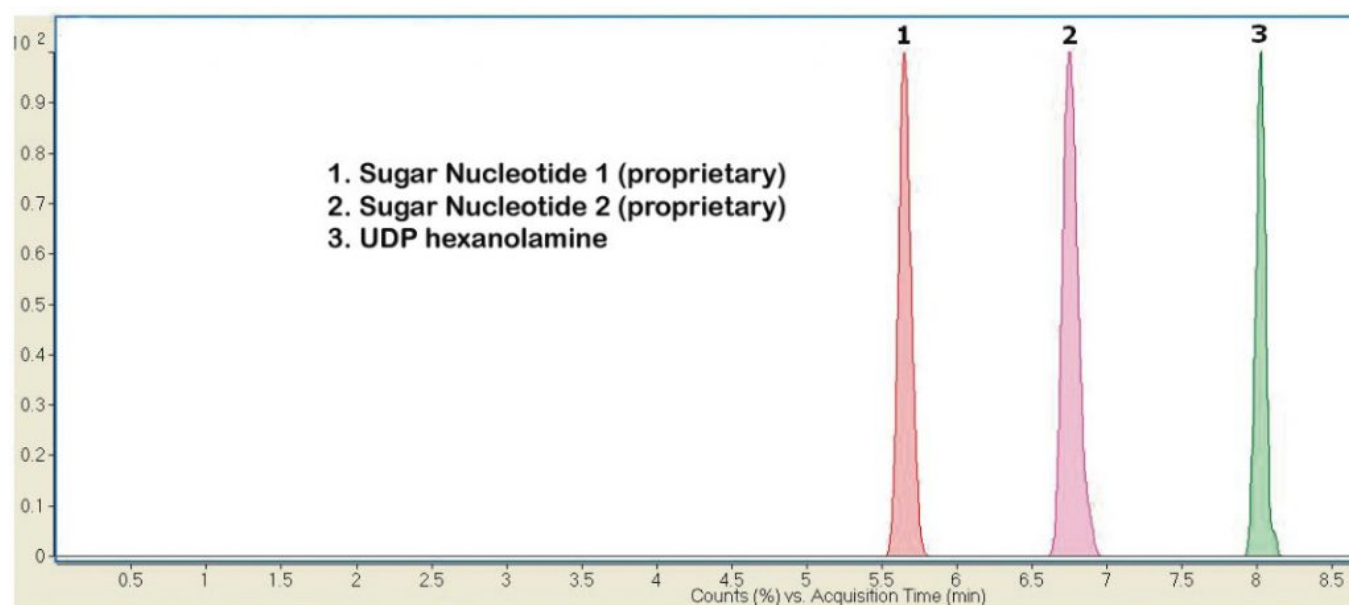


Separating UDP and CDP Sugars with ANP and Increased Sensitivity

This Method can be used to analyze UDP and CDP Sugars using UDP-Hexanolamine (*a metabolite*) as an Internal standard. The Sugar Nucleotides used in this Application Note are a mixture of compounds that occur in plants and their structure is proprietary.

A potentially powerful tool for profiling Sugar Nucleotides in Metabolomic studies, this Method uses an Inverse Gradient (*HILIC like*); the Mobile Phase uses high organic component which enhances Mass Spec response and assures lower detection limits.



Method Conditions

Column: Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: 70000-15P-2

Dimensions: 2.1 x 150mm

Mobile Phase:

A: DI Water / 0.1% Ammonium Formate (*pH* 7.2)

B: 90% Acetonitrile / 10% DI Water / 0.1% Ammonium Formate (*pH* 6)

Gradient:

Time (minutes)	%B
0	95
10	75
12	75
12.1	95
15	95

Post Time: 5 minutes

Flow rate: 0.3mL / minute

Detection: ESI - neg - Agilent 6410 Triple Quadrupole Mass Spectrometer

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Mass Data:

1. Compound 1 - the monitored MRM transitions were m/z 535 to m/z 323
2. Compound 2 - the monitored MRM transitions were m/z 564 to m/z 322
3. UDP Hexanolamine (*internal standard*) - the monitored MRM transitions were m/z 502 to m/z 258
(MRM = multiple reaction monitoring in LC/MS/MS)

Notes: Sugar Nucleotides among other metabolites are an important group of compounds to be analyzed when one is trying to understand cellular response to genetic or environmental perturbations.

**Attachment**

No 61 Sugar Nucleotides Analyzed with LCMS/MS pdf 0.2 Mb [Download File](#)

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