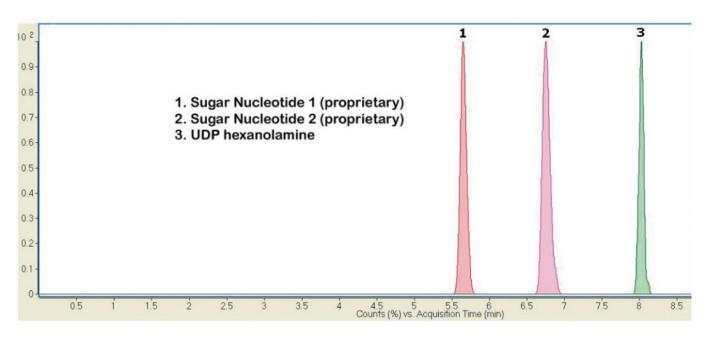


Sugar Nucleotides Analyzed with LCMS/MS - AppNote

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

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Post Time: 5 minutes **Flow rate**: 0.3mL / minute

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

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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