

PRODUCT DATA SHEET

Alditol Acetate Mixture-1 (quantitative carbohydrate mix)

Catalog number: 1124
Solvent: chloroform
Storage: -20°C
Concentration: 50mg/ml
Volume: 1ml
Source: synthetic

GC Conditions:
Column: SP-2330, 30 x 0.25mm x 0.2µm
Oven: 240°C isothermal
Carrier: helium @ 20cm/sec.
Detector: FID, 250°C
Injector: 250°C

Elution

<u>Order</u>	<u>Component Name</u>	<u>% Conc. by weight</u>
1	Rhamnitol pentaacetate	25
2	Fucitol pentaacetate	25
3	Ribitol pentaacetate	25
4	Arabinitol pentaacetate	25

Application Notes:

This alditol acetate mixture contains four pentaacetate alditols for the qualitative identification and quantitation of unknowns. This mixture is ideal as a standard for the analysis of polysaccharides, especially for plant cell wall polysaccharides. All materials are analyzed to verify their identity and to determine their purity. All analytes are 98+ % pure. This standard is accurately prepared by gravimetric technique (+/- 0.5%) and all glassware is class A rated. Ampules are purged with nitrogen/argon before and after filling and chilled before being flame sealed. Store ampules sealed as received and process without delay immediately after opening the ampule.

Selected References:

1. N. Brunton, T. Gormley, B. Murray "Use of the alditol acetate derivatisation for the analysis of reducing sugars in potato tubers" *Food Chemistry*, Vol. 104(1) pp. 398-402, 2007
2. G. Sasaki et al. "Rapid synthesis of partially O-methylated alditol acetate standards for GC-MS: some relative activities of hydroxyl groups of methyl glycopyranosides on Purdie methylation" *Carbohydrate Research*, Vol. 340(4) pp. 731-739, 2005

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