



ARABINAN (SUGAR BEET) (Lot 80902b)

P-ARAB

04/13

CAS: 11078-27-6

PREPARATION:

Arabinan is extracted from sugar-beet pulp with calcium hydroxide solution at 90°C. The recovered arabinan is subsequently purified by precipitation and treatment with ion-exchange resins. Sugar beet arabinan consists of a 1,5- α -linked backbone to which 1,3- α -linked (and possibly some 1,2- α -linked) L-arabinofuranosyl residues are attached. Approximately 60% of the main-chain arabinofuranosyl residues are substituted by single 1,3-linked arabinofuranosyl groups. The reducing terminal arabinosyl residue is attached through rhamnose to fragments of the rhamnogalacturonan backbone of the native pectin molecule.

DISSOLUTION:

Arabinan is readily soluble in cold water. Arabinan concentrations of up to 20% w/v can be achieved in hot water.

SUGAR COMPOSITION:

Arabinose: Galactose: Rhamnose: Galacturonic acid = 88: 3: 2: 7.

Glc trace of alditol acetates:

