

## **Serenoa repens (Fruit) - Phytosterols and fatty acids**

Art. ID	NIST-3250
Unit	6 g x 5 packets
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM) is intended primarily for use in validating analytical methods for the determination of phytosterols and fatty acids in the fruit of *Serenoa repens* (saw palmetto) and similar matrices. A unit of NIST-3250 consists of five packets, each containing approximately 6 g of ground saw palmetto fruit. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
dry-mass basis	Campesterol	[474-62-4]	0,1175 ± 0,0025	mg/g		
dry-mass basis	beta-Sitosterol	[83-46-5]	0,454 ± 0,018	mg/g		
dry-mass basis	Stigmasterol	[83-48-7]	0,0477 ± 0,0020	mg/g		
dry-mass basis	Octanoic acid (Caprylic acid) (C8:0)	[124-07-2]	0,1072 ± 0,0027	%		
dry-mass basis	Decanoic acid (Capric acid) (C10:0)	[334-48-5]	0,1175 ± 0,0055	%		
dry-mass basis	Dodecanoic acid (Lauric acid) (C12:0)	[143-07-7]	2,962 ± 0,062	%		
dry-mass basis	Tetradecanoic acid (Myristic acid) (C14:0)	[544-63-8]	1,103 ± 0,065	%		
dry-mass basis	Hexadecanoic acid (Palmitic acid) (C16:0)	[57-10-3]	0,869 ± 0,027	%		
dry-mass basis	(Z)-9-Hexadecenoic acid (Palmitoleic acid) (C16:1 n-7)	[373-49-9]	0,0158 ± 0,0010	%		
dry-mass basis	Octadecanoic acid (Stearic acid) (C18:0)	[57-11-4]	0,1791 ± 0,0054	%		
dry-mass basis	(Z)-9-Octadecenoic acid (Oleic acid) (C18:1 n-7)	[112-80-1]	3,24 ± 0,15	%		
dry-mass basis	(Z)-11-Octadecenoic acid (Vaccenic acid) (C18:1 n-7)	[506-17-2]	0,0547 ± 0,0030	%		
dry-mass basis	(Z,Z)-9,12-Octadecadienoic acid (Linoleic acid) (C18:2 n-6)	[60-33-3]	0,824 ± 0,055	%		

dry-mass basis	(Z,Z,Z)-9,12,15-Octadecatrienoic acid (alpha-Linolenic acid) (C18:3 n-3)	[463-40-1]	0,194 ± 0,025	%
dry-mass basis	Eicosanoic acid (Arachidic acid) (C20:0)	[506-30-9]	0,0097 ± 0,0002	%
dry-mass basis	Docosanoic acid (Behenic acid) (C22:0)	[112-85-6]	0,0066 ± 0,0002	%
dry-mass basis	Tetracosanoic acid (Lignoceric acid) (C24:0)	[557-59-5]	0,0107 ± 0,0003	%