

CARDIOAID™-WB PLANT STEROL ESTERS

TECHNICAL DATA SHEET



NUTRITION

FUNCTIONAL FOODS & BEVERAGES

NUTRITION BARS

SOYA FOODS

VITAMINS & SUPPLEMENTS

CardioAid™
plant sterols



DESCRIPTION

CardioAid™-WB plant sterol esters are derived by esterifying plant sterols with rapeseed oil fatty acids. Structurally similar to cholesterol, plant sterols have been found, in studies, to reduce the absorption of dietary cholesterol, which can impact serum cholesterol levels [Mayo Clin Proc 78:965-78 (2003); AJCN 74:33-43 (2001)].

ADM has approval for plant sterols and plant sterol esters as novel food ingredients under EC Regulation No. 258/97 to be used in yellow fat spreads, salad dressings, milk-type products, fermented milk-type products, soya drinks, and cheese-type products, as described in EC Decision 2004/333 of 31 March 2004.

In addition, with the European Union, products containing plant sterols and plant sterol esters must conform to the labelling and compositional requirements that are defined in Commission Regulation 608/2004.

TYPICAL CHARACTERISTICS

Appearance Creamy white to pale yellow paste
Melting point, °C 25-30
Flavor and odor Bland

SPECIFICATIONS

Total plant sterols, %	Min. 56
Total plant sterol esters, %	Min. 90
Free sterols, %	Max. 5.0
Beta-sitosterol	<80%*
Stigmasterol	<30%*
Brassicasterol	<3%*
Sitostanol	<15%*
Campesterol	<40%*
Campestanol	<5%*
Tocopherols, ppm	<400
Peroxide value, meq/kg	Max. 5.0
Acid value, mg KOH/g	Max. 1.0
Moisture, %	Max. 0.1
Heavy metals, ppm	Max. 10
Standard plate count, per g	Max. 1,000
Yeast & mold, per g	Max. 300
Salmonella	Neg.
E. coli	Neg.
Staph. aureus	Neg.

*As percent of total sterols

INGREDIENTS

Plant and wood sterol esters, antioxidants (mixed tocopherols, citric acid).

STORAGE

CardioAid-WB plant sterol esters should be stored refrigerated or frozen.

SHELF LIFE

CardioAid-WB plant sterol esters should be stored refrigerated for a maximum of 12 months and frozen for a maximum of 18 months.

PACKAGING

CardioAid-WB plant sterol esters are available in 20 kg pails and 190 kg drums. Samples are available upon request.

STATUS

CardioAid-WB plant sterol esters are produced under current food GMPs.



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