



Novasoy® 400

Soya Isoflavone Compound

DESCRIPTION

Novasoy® 400 is a soya-based dietary supplement ingredient, rich in the two important isoflavones genistin and daidzin. It is carefully extracted to ensure that the ratios of the various isoflavones are available, as they would be found in soya beans themselves and in natural soya foods such as tofu. The aglycone and glycoside forms are also maintained in their approximate natural proportions. In addition, **Novasoy® 400** also contains many of the other healthful natural components of soya.

Novasoy® 400 can be used singly or in combination with other materials to provide a daily dosage suitable for most delivery formats. Based on soya food consumption in Japan, it has been estimated that a typical daily isoflavone intake should be approx. 50 mg* per person.

Novasoy® 400 is produced in the USA in compliance with the FDA's current Good Manufacturing Practices (cGMP) food regulations.

* American Journal of Clinical Nutrition 1995;62:645-9

TYPICAL ANALYSIS

Total isoflavones	Min. 40%
Ratio of genistin:daidzin:glycitin	Similar to unfermented soya products such as tofu
Other natural soya components	40-50%
Proteins (N x 6.25)	Max. 12%
Fat	Max. 1%
Heavy metals (as lead)	Max. 5ppm
Moisture	Max. 7%

MICROBIOLOGICAL ANALYSIS

Standard plate count	Max. 3000 per g
Yeasts and moulds	Max. 100 per g
E. coli	Negative to test
Salmonella	Negative in 100g

Effective: 21st May, 2002

Replaces: 350/03/02

350/05/02

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material. Freedom to use any patent owned by ADM or others is not to be inferred from any statement contained herein.

CHEMICAL NAMES AND FORMULAE

As glycosides:	Genistin	$C_{21}H_{20}O_{10}$	Molecular weight::	432
	Daidzin	$C_{21}H_{20}O_9$		416
	Glycitin	$C_{22}H_{22}O_{10}$		446
As aglycones: (in free form)	Genistein	5,7,4' – trihydroxyisoflavone		270
	Daidzein	7,4' – dihydroxyisoflavone		254
	Glycitein	7,4' – dihydroxy-6-methoxyisoflavone		284

GRANULATION

Novasoy® 400 is an amber-coloured fine powder, with typically at least 90% passing a US 100 mesh sieve (150 microns).

DIETARY STATUS

Packs bearing the O.U. symbol contain product that is Kosher and Pareve. **Novasoy® 400** is Halal and does not contain any ingredient that is forbidden according to the Sharia or Islamic dietary laws.

GRAS STATUS

In the USA, **Novasoy® 400** soya isoflavone compound has GRAS status.

GM STATUS

Non-GM **Novasoy® 400** is available, produced from soya supplied through ADM's IP programme. A separate Statement can be produced on request.

LOT NUMBER CODING

Example: Lot 0205011 relates to
02 = year of production
05 = month of production (May)
01 = day in the month
1 = daily batch number

PACKAGING

Poly-lined, polyethylene drums: 20 kg net (ADM Code 152400 FD)
5 kg net (ADM Code 152400 PL)
1 kg net (ADM Code 152400 PK)

STORAGE AND SHELF LIFE

Novasoy® 400 should be stored in closed packs under cool, dry conditions. A shelf life of three years or more may be expected with storage at below 25° C and less than 60% relative humidity.

IMPORT DUTY TARIFF HEADING

1302.1998