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NUDETOX CAPSULES: The nutritional detoxification & cleansing of body's toxins from internal organs and tissue

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ABSTRACT

The body's ability to rid itself of toxic substances is largely dependent upon the liver. Overexposure to environmental toxins in the air and in our diet can put excessive strain on the liver's detoxification systems and can rob us of our health.

Detoxification in the liver occurs in two general phases: Phase I and Phase II. Depending upon the availability of many critical nutrients, the activity of either phase may be reduced or enhanced. Adequate nutritional supplement like Nudetox capsules helps to insure proper functioning of both phases of detoxification. Scientific research has revealed that Nudetox capsule is helpful in detoxification & cleansing of our Toxic metabolic products. This review summarises the current available scientific literature regarding the Nutritional Detoxification & Cleansing of body's toxins from internal organs and tissue

INTRODUCTION

The liver is the most important organ in the body involved in detoxification. It is in the liver where toxic substances, such as drugs, alcohol, and environmental toxins, undergo a process called biotransformation which renders them less harmful and helps to facilitate their removal from the body.[1]

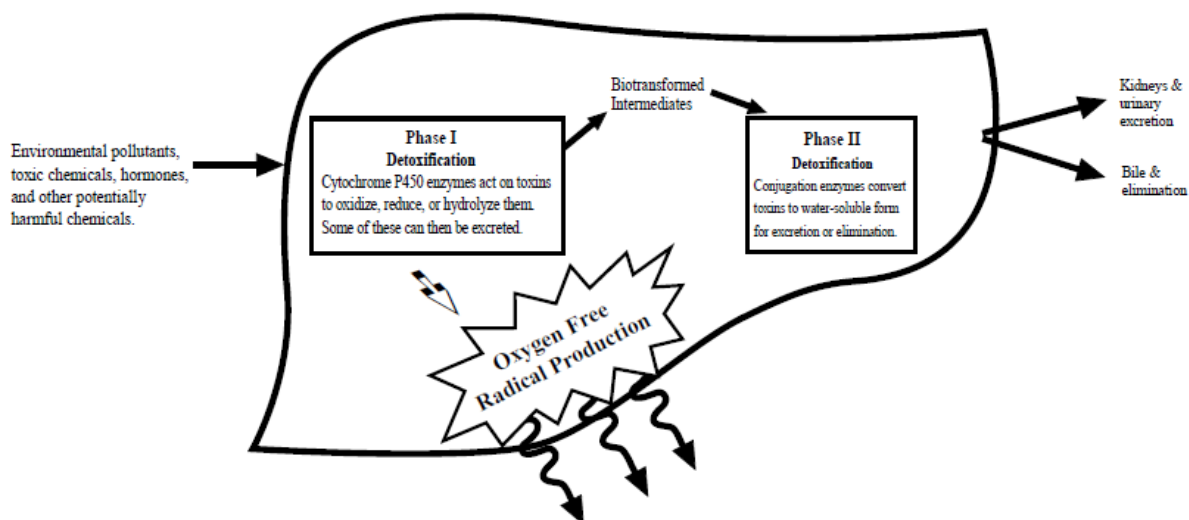
Liver detoxification involves a number of enzymatic systems which are divided into two general phases: Phase I and Phase II. Phase I involves the activation of a series of enzymes called the cytochrome P450 mixed-function

oxidases. These enzymes begin the process of biotransformation by oxidizing, reducing, or hydrolyzing toxins, creating bio transformed intermediates. Phase II enzymes perform conjugation reactions which help to convert the bio transformed intermediates from Phase I into less toxic, water-soluble substances that are easily excreted or eliminated from the body. Phase II enzymes may also catalyze reactions independent of Phase I activity, acting directly upon a drug or toxin that does not require biotransformation.

In some instances, Phase I enzymes can actually transform a non-toxic foreign substance into a harmful, toxic substance. For example, a relatively

harmless component of cigarette smoke is bio transformed during Phase I into a carcinogenic compound. A properly functioning Phase II system should, however, act to detoxify the metabolically activated carcinogen. To effectively eliminate bio transformed intermediates, Phase II enzyme activity must be in balance with Phase I, otherwise toxins may accumulate in the body. Another potentially damaging effect of Phase I is the production of oxygen free radicals that occurs as a

result of cytochrome P450 activity. As a person's toxin load increases, so does cytochrome P450 activity, which can expose the liver to greater oxidative stress. Adequate intake of Natural antioxidants in Nudetox capsules naturally occurring phytochemical compounds present in Nudetox capsules helps to protect the liver against free radical damage thus played effective role in Detoxification & Cleansing Program in Human body.



BALANCED NUTRITION SUPPORT BY NUDETOX CAPSULES IN DETOXIFICATION ENZYME ACTIVITY

Adequate nutritional Support by Nudetox capsules helps to insure proper functioning of both Phase I and Phase II detoxification and to reduce the risk of free radical damage produced during the detoxification process. Several nutrients in Nudetox capsules are required for cytochrome P450 activity. Glutathione and the amino acid cysteine help to regulate Phase II conjugation reactions. The activity of each phase may be reduced or enhanced depending on the availability of critical nutrients.[2,3]

PHYTOCHEMICAL COMPOUNDS IN NUDETOX CAPSULES SUPPORT DETOXIFICATION

Nudetox capsules helps to protect the liver against free radical damage thus played effective role in Detoxification & Cleansing Program in Human body.

Population studies from around the world have consistently shown that diets rich in fruits and vegetables are associated with lower risks of cancer.[4] These findings suggest that the antioxidant activity of several vitamins and minerals present in fruits and vegetables plays a protective role against cell damage or mutation caused by free radicals. But what may also be beneficial are the multitude of nonnutrient compounds (phytochemicals) that are present in plant foods.[5-9] Some compounds may act as blocking agents: they prevent, or *block*, carcinogens from reaching or reacting with critical

target sites in tissue. Others may act as suppressing agents, compounds which suppress the growth and change of cells that have been exposed to carcinogens and would otherwise cause cancer. [10]

Mechanisms by which Nudetox capsules played effective role in Detoxification & Cleansing Program in Human body.

- Inhibit the biotransformation of noncarcinogenic compounds into carcinogenic compounds.
- Induce detoxification enzyme pathways-including Phase II enzymes which facilitate the removal of carcinogens from the body.
- Scavenge free radicals.

List of phytochemicals that have been identified as blocking agents

COMPOUND	SOURCE
isothiocyanates	cruciferous vegetables (broccoli, cabbage, kale)
glucosinolates	cruciferous vegetables
organosulfur compounds	<i>Allium sp.</i> (garlic, onions)
curcumin	turmeric
flavonoids	numerous plants
monoterpenes	citrus peel

Table 1 Shows list of some of the phytochemicals that have been identified as blocking agents.

CLINICAL STUDY DATA ON INGREDIENTS IN NUDETOX CAPSULES

In several studies, laboratory animals fed a crude, unrefined diet composed of natural constituents containing both nutrients and nonnutrients developed fewer carcinogen-induced

tumors than animals fed the same diet, but refined and devoid of the nonnutrient components of food.[11-13] Higher levels of Phase II enzyme activity were also reported.[14,15] Phytochemicals in Nudetox capsules may thus offer support for liver detoxification of foreign chemicals and carcinogens.

COMPOSITION OF NUDETOX CAPSULES

Supplement Facts	
Serving size : 1 Capsule	Servings per container : 60
Each Capsule Contains	
Silymarin Extract	50mg
N-Acetyl-L-Cysteine	40mg
Alpha Lipoic Acid	50mg
L-Leucine	30mg
L-Valine	27mg
L-Isoleucine	27mg
L-Glycine	27mg
Grape Seed Extract	34mg
Sodium Molybdate	3mcg
DL-Methionine	27mg
Taurine	27mg
L-Glutamine	27mg

Why body detoxification is important?

- Due to pollution, tens of thousands of toxic chemicals have been introduced into our environment. Added to this, use of alcohol, tobacco, prescription and illicit drugs has made it a challenging task for the body to get rid of these chemicals.
- Removal of these toxic elements or body detoxification becomes very important for a healthy living.
- The Liver carries the greatest burden of detoxifying the foreign substances that are toxic to the body. It plays a major role in the detoxification of numerous substances in the body, whether these substances come from the environment, from food or formed within the body (from hormones) and other substances).

What is Nudetox?

- Nudetox is a blend of food ingredients, nourishing herbs, antioxidants, amino acids and minerals together are mainly required for liver detoxification.
- These beneficial ingredients help to support the intensive cleaning of the tissues.
- The unique combination promotes healthy detoxification.

Pharmacological Action of Nudetox capsules

Grape seed Extract

Antioxidant with its flavonoid phytonutrients helps to detoxify liver from toxins, drugs and supports immunity.

N-Acetyl Cysteine

It is a precursor of L-glutathione and eliminates xenobiotics and intestinal endotoxins.

Alpho Lipoic Acid

Powerful antioxidant that helps to remove toxins and byproducts of fat metabolism.

Silymarin Extract

A natural herb that has antioxidant and anti-inflammatory properties. It helps to protect the liver functions against environmental toxins.

Taurine and Glycine

Helps to support healthy metabolism and elimination of xenobiotics. They help to support the metabolic integrity of mitochondria.

Minerals

To neutralize the toxins involved in protein metabolism.

Amino acids

Helps to eliminate heavy metals such as mercury and arsenic and also helps to support glutathione production and healthy cell cycling activity. They help to manufacture phase I detoxification enzymes.

INDICATIONS

NUDETOX CAPSULES are indicated for Nutritional Detoxification & Cleansing of body's toxins from internal organs and tissues.

Contra-Indications

Known contraindications to any ingredients of the supplement.

Dosage and Directions for Use

Take 1-2 Nudetox capsules daily for up to three months.

It is taken preferably with meals or as directed by a physician, licensed nutritionist, or certified trainer

Safety

Nudetox capsules has an excellent safety record in both animal & human investigations, should be considered as a supplement of choice. Nudetox capsules is generally regarded as safe when taken in the recommended doses; however, mild reactions can include gastrointestinal problems, such as nausea.

Nudetox capsules is generally well tolerated. Because of lack of long-term safety data, it should be avoided by pregnant women and nursing mothers.

Side-Effects

Epigastric pain/tenderness, heartburn, diarrhea and nausea, flushing.

Special precautions

Take Nudetox capsules with or directly after meals to lessen the possibility of gastrointestinal upset. It should be avoided by pregnant women and nursing mothers.

Storage condition

Store in a cool & dry place, protected from light. Keep out of reach of children.

Storage life is 2 years.

The preparation should not be used after the expiry date.

SUMMARY & CONCLUSION

Good nutraceutical supplement like Nudetox capsules which is rich in Bioavailable Natural essential nutrients, helps to ensure a healthy,

properly functioning detoxification system. In addition, recent research suggests that many of the phytochemicals found in Nudetox capsules supports liver detoxification and are associated with a reduced risk of cancer. Several of these plant compounds appear to induce Phase II enzymes which may inhibit carcinogenesis by detoxification. Induction of Phase II enzymes, such as quinone reductase and glutathione S-transferase, appear to have a protective effect in a number of experimental animal studies. Clinical studies further support the health promoting effects of Nudetox capsules.

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