



# Introduction

## Chinese Transgenic Crops & Beijing Gingko Group

### *Beijing Gingko Group*

February 25, 2005

# *Agenda*

- **Chinese Transgenic Crops**

- Chinese Administration Policy
- Crop Planting Situation
- Effects on China

- **Beijing Gingko Group**

- Overview
- Non-GM Products
- Non-GM Control and Management

# Chinese Policy - Transgenic Crops



Time	Department	Policy title	Policy abstract
Dec 1993	National Science and Technology Committee	Administration methods for the safety of genetic engineering	Prescribing the application, testing and control of modified genetic materials
Jul 1996	Ministry of Agriculture of the People's Republic of China	Administration methods for the safety of agricultural gene engineering	Registering and testing of modified genetic materials
1999	State Environmental Protection Administration of China	An outline for National bio-safety program	Update of National bio-safety regulations including policy and law
May 2001	National Council of the People's Republic of China	Legal Administration for the safety of agricultural transgenic biology	Policy for agricultural transgenic biology; research, experimentation, production, distribution, import and export, sale and labeling
Mar 2002	National Council of the People's Republic of China	Three methods for management of agricultural GMO materials	Defining the management and labeling regulations of GMO materials in China
Apr 2002	Ministry of Health People's Republic of China	Administration methods for the safety of transgenic foods	Labeling of transgenic foods



# *Transgenic Crops in China*

## *Current Planting Situation*

- **Planted Commercially In China**

**Large Scale: Bt Cotton:** 2003 - 2.8 Million Hectares  
2004 - 3.7 Million Hectares

**Small Scale: Tomato** In Hubei And Guangdong Province  
**Pimiento** In Liaoning Province  
**Petunia**

- **Experimental Planting at Farm Scale**

At Least 13 Crops: Chili, Corn, Rice and Soy

- **The Greatest Potential Long Term Impact**

Final Approval And Adoption Of Bt Rice



# ***Transgenic Crops & Foods Impact On China***

- **2004 Approval - Monsanto Company**  
Importing Transgenic Soy/Corn Into China
- **Transgenic Soy In Chinese Food Chain - 2004**  
More Than 20 Million Metric Tons Imported
- **Chinese Population Knows Little About  
Transgenic Foods**
- **The Government Is Creating Laws To Protect The  
Rights Of Public Regarding GM Foods**



# *Beijing Gingko Group*





# ***Beijing Ginkgo Group***

- **12 Years Old**
- **Privately Held Chinese Joint-stock Company**
- **Seven Manufacturing Facilities Throughout China**
- **Jinke Group USA Subsidiary In California**
- **GMP, ISO9001, IP Non-GM And Kosher Certification**
- **Our Vision:**

***Totally Committed To Providing Our  
Global Customers With The Highest  
Quality Products And Service Available***



# ***Beijing Ginkgo Group***

## ***Primary Products***

- **Intermediates From Herbs For Multinational Pharmaceutical Companies**
- **Licorice Root Extracts**
- **Black Soybean Fractions**
- **Natural Vitamin E - Tocopherol**
- **Phytosterols - Soy**
- **Tocotrienol – Palm & Rice**
- **Bilberry Extract**



# ***Black Soybean Plantation***

## **General Information:**

### **– Plantation Place:**

HeiLongJiang Province

XinJiang Province

### **– Black Soybean Species Selection:**

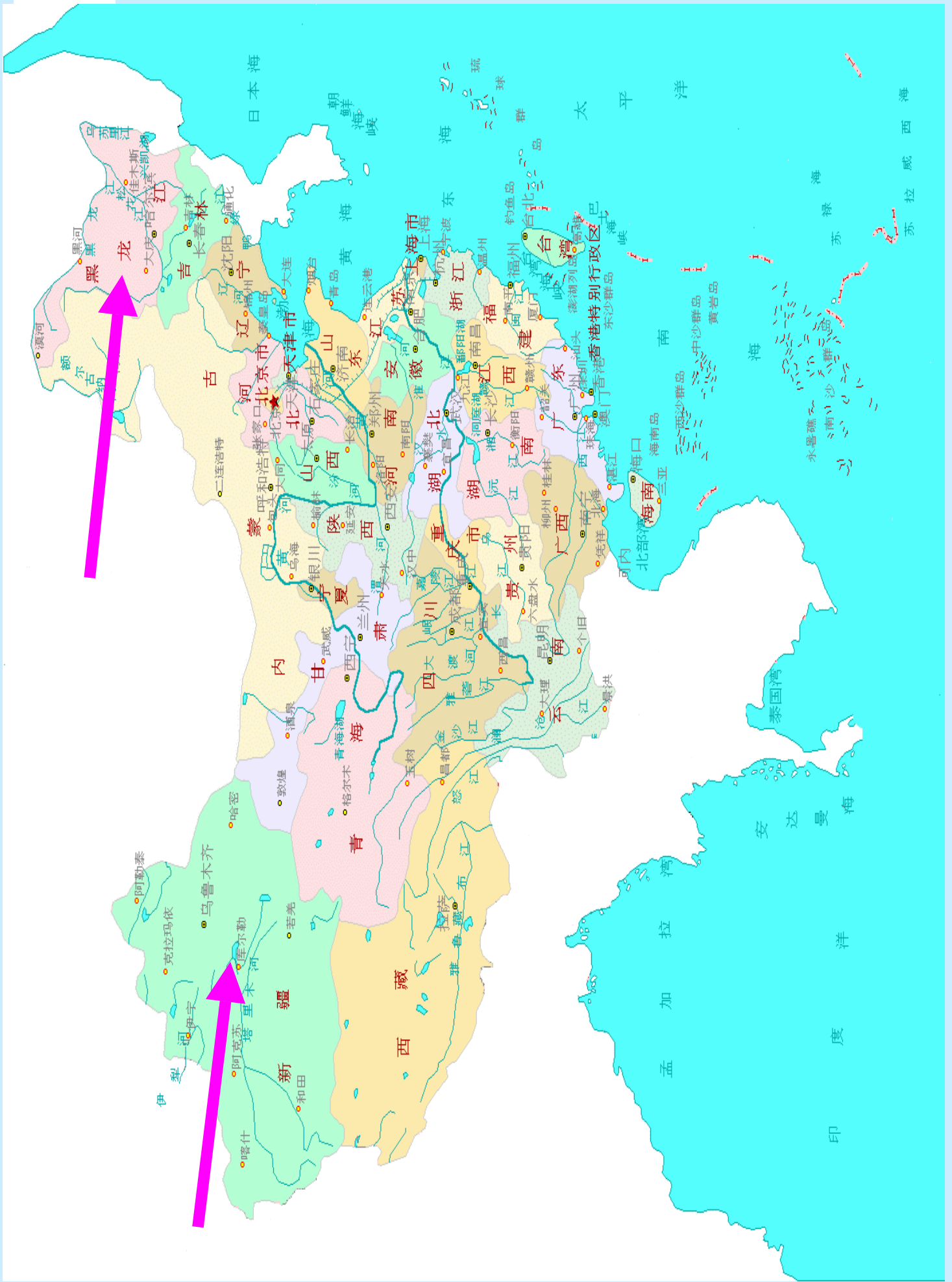
BS No.1; BS No.2; BS No.3.

### **– Plantation Technical Direction:**

Chinese Agricultural Technical Institute.

### **– Output per Chinese acre ( 667 sq. meters ):**

150kg.



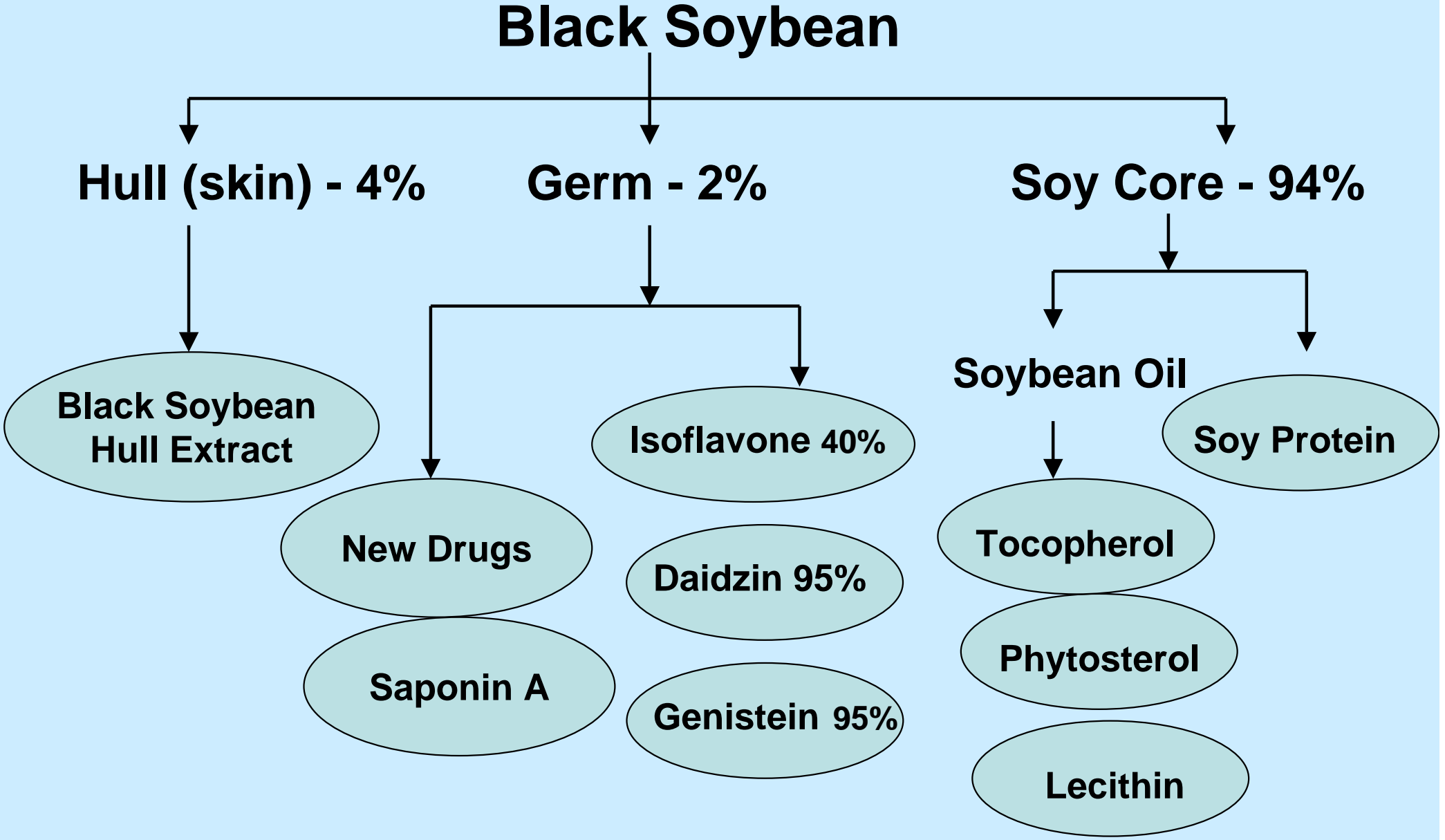






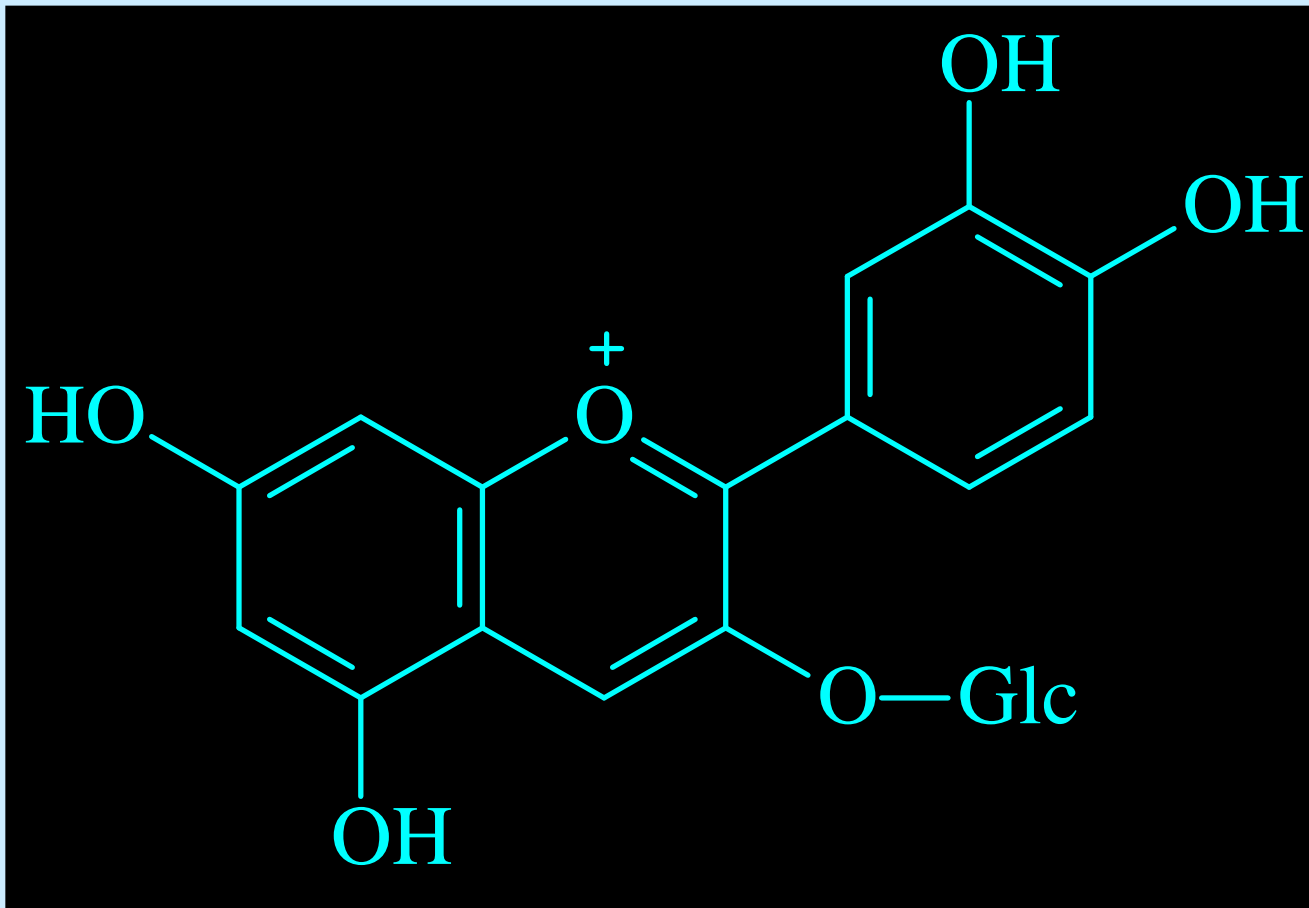
# *Black Soybean Fractions*

## *Non-GMO*



# *Product Introduction*

## *Black Soybean Hull Extract*



**Cyanidin-3-glucoside**



# ***Product Introduction***

## ***Black Soybean Hull Extract***

### **Benefits:**

- **Significant anti-oxidant effect**

Activity is the same as a-Tocopherol but is water soluble.

- **Improve visual sensation through following mechanisms:**

- *Increase the sensitivity of the retina to light*
- *Promotes rhodopsin reproduction*
- *Increase blood flow rate in the microcirculatory system and inhibit platelet aggregation.*

- **Improvement of blood circulation**

- **Apoptosis-inducing action to cancer cell**

- **Skin whitening effect**

- Inhibit Tyrosinase's activity as the same as Kojic Acid



# *Product Introduction*

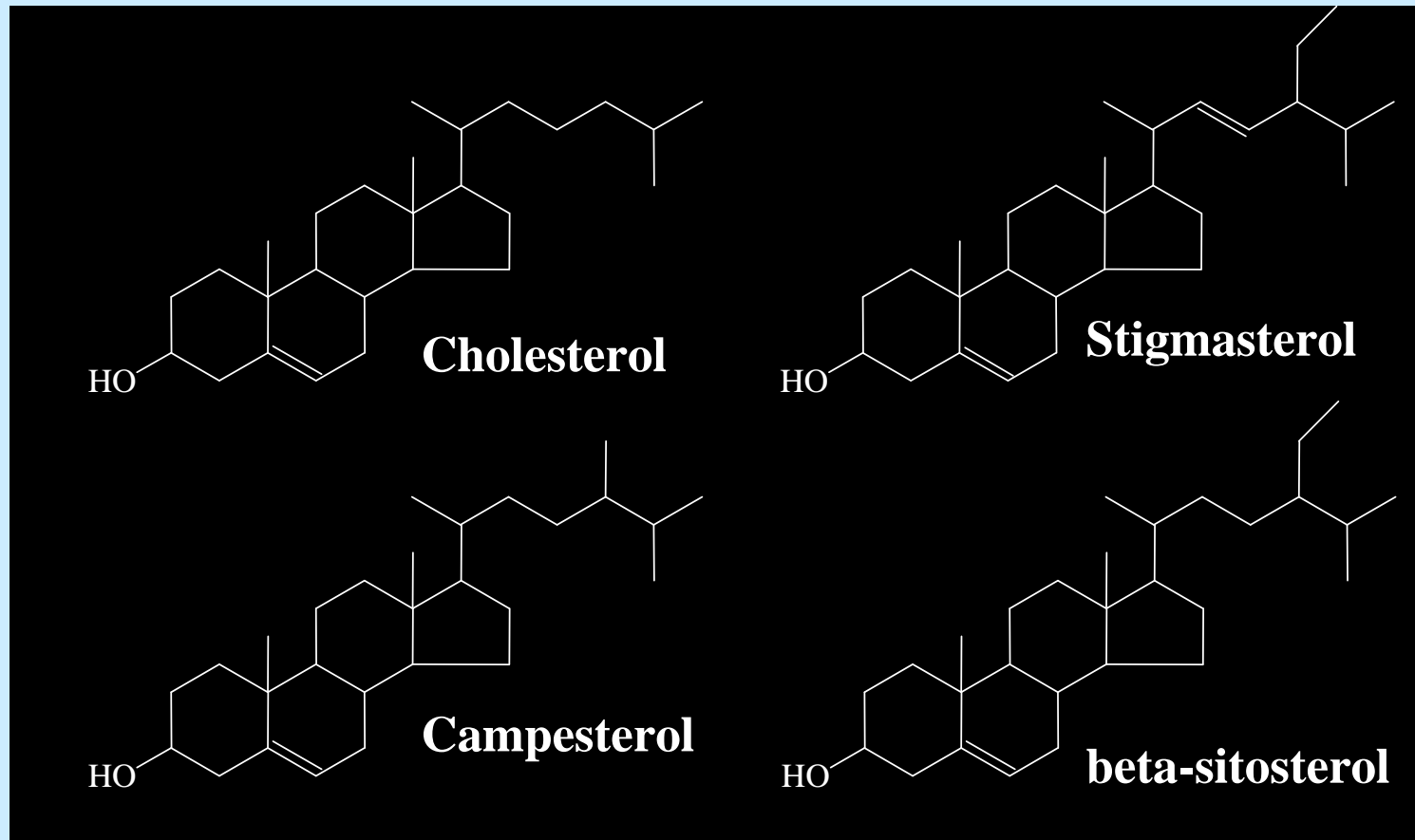
## *Phytosterols*

### **SUPERIOR COMPOSITIONAL PROFILE:**

- BAP - Benzo(a)pyrene less than 1ppb
- Non-GMO Certification
- Identity Preserved Certification
- Safe Manufacture Process with Low Solvent Residue.

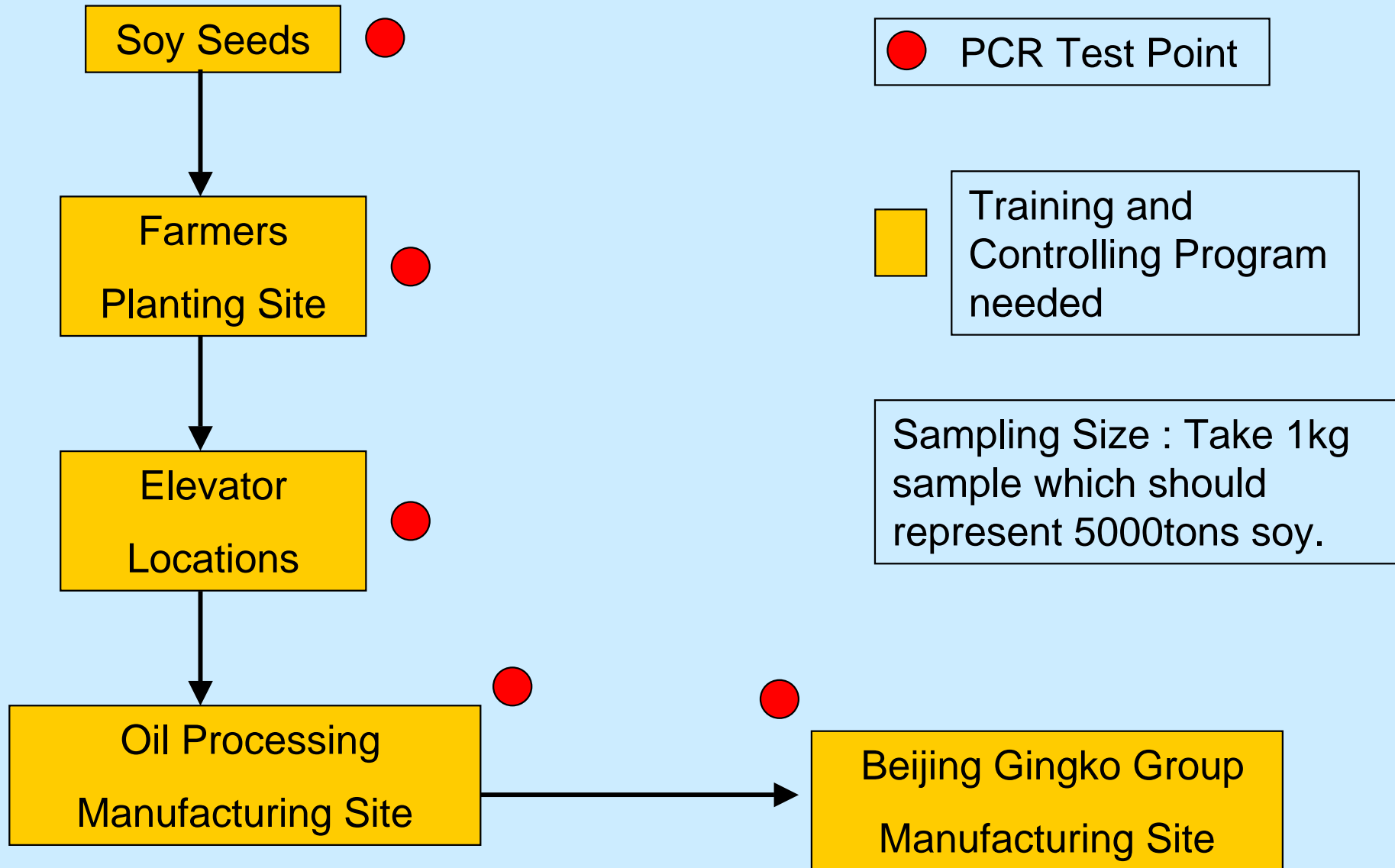
# Product Introduction

## Non-GM Phytosterols

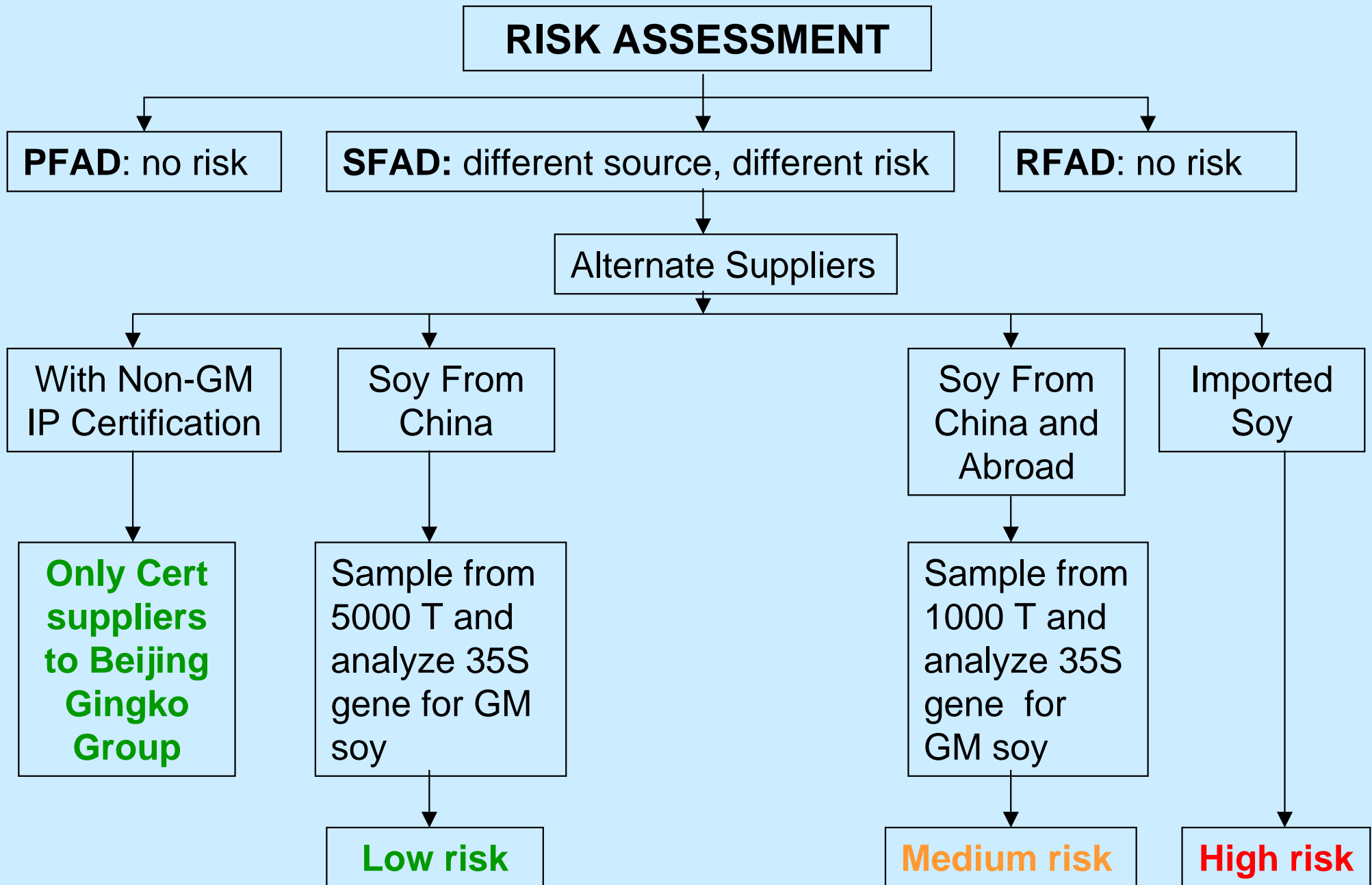


**Structurally Phytosterols Are Chemically Similar To Cholesterol  
And Have Been Shown to Significantly Reduce Cholesterol**

# Total Soybean IP Non-GM Program



# Non-GM Risk Assessment



# ***Non-GM Process Control***



**GM threshold: 0.1%; Confidence level: 99%**

1. Validate Process At Every Stage
2. Documentation
3. Training – Staff & Operators
4. Internal Control – Periodic Audit
5. Adverse Event Management
6. Verification Of Suppliers Specification
7. Reception Of Raw Material
8. Control Of Manufacturing Process
9. Control Of Packaging Materials
10. Control Of Storage and Shipment Of End Products
11. Complete Product Traceability



# ***Beijing Gingko Group IP Non-GM Certification***

- **Bilberry Extract**
- **Natural Vitamin E: Tocopherol**  
**Tocotrienol (Palm & Rice)**
- **Phytosterols**
- **Black Soybean Isoflavone**
- **Black Soybean Lecithin**



# **Beijing Ginkgo Group**

*—your Natural Partner*

- **Address:** 3F-Kehaifulin Building, The Chinese Academy of Agriculture Sciences, No. 12, South Street of Zhongguancun, Haidian District, 100081 Beijing
- **Tel:** +8610-62159088
- **Fax:** +8610-62187718
- **E-mail:** [sale@gingkogroup.com.cn](mailto:sale@gingkogroup.com.cn)
- **Homepage:** <http://www.gingkogroup.com.cn>

**Thank You !**