



## Translation of KRAV's quality manual

Chapter	<b>5. Certification</b>	Page	1 (of 1)
Document name	<b>5.2.2.4.5 GMO Risk list</b>	Edition	2
Date of issue	2002-07-29		
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## GMO Risk list

### **Aim**

The aim of this list is to support the organisation in evaluating where there may be risks for GMO contamination. It will develop to a tool usable to determine what levels of documentation or analysis may be required for certain products or productions.

### **Responsibilities**

All certification assistants are to keep themselves informed of what products, crops and areas are to be considered GMO risks.

The certification officers are responsible for ensuring that inspection reports and procedures for inspectors are designed to cover risks identified in this list. The certification officer for processing is responsible for ensuring that the lists at [www.krav.se](http://www.krav.se) are updated when this list is.

All employees of KRAV are responsible for notifying the owner of this document if they suspect any new risk area.

### **Background**

The hereditary factors in bacteria, plants and animals are modified with genetic methods to achieve specific changes. Such artificially modified organisms are called *genetically modified organisms*, GMO. The uncertainty about GMO is large and many feel a great concern about this. KRAV has decided that we do not know enough specifics about GMO and therefore choose to practice a precautionary measure - GMO and products thereof are not accepted under any circumstances in KRAV's approved products. Read more about KRAV's opinion of GMO in KRAV's GMO policy (reference)

Development in biotechnology is rapid. To be able to assist businesses which are affiliated to KRAV in keeping track of which products that can be a GMO, contain a GMO or contain products of GMO, KRAV publishes this list of raw material and ennobled products which might contain GMO or products from GMO.

Please notice that KRAV does not guarantee that this list contains all of the risk products. Raw products and other products are added continually. According to KRAV's rules it is always the affiliates responsibility to make sure that KRAV approved products are not contaminated with GMO or products of GMO. KRAV should always be contacted if an affiliate suspects that his or her product has been contaminated. This applies even if there is a suspicion that a purchased KRAV approved product might be contaminated.



## Translation of KRAV's quality manual

Chapter	<b>5. Certification</b>	Page	2 (of 2)
Document name	<b>5.2.2.4.5 GMO Risk list</b>	Edition	2
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If you receive information about products on the market and which are reported being GMO or GMO based, and not found on our list, please contact us via e-mail to [foradling@krav.se](mailto:foradling@krav.se).

More information about GMO and products of GMO can be found here :

Newsletter KRAV -märkts theme issue about GMO (in Swedish only):

<http://www.krav.se/konsument/tema/gmo.htm>

Infoxgen.com:

A European website with data bases about GMO products search

[http://www.infoxgen.com/index\\_e.htm](http://www.infoxgen.com/index_e.htm)

Organic Materials Review Institute (OMRI):

An independent American company which evaluates material which can be used in organic production.

<http://www.omri.org/>

Department of Agriculture

Rules and regulations, lists and information about GMO in agriculture

<http://www.sjv.se> (portal page)

<http://www.sjv.se/net/SJV/Startsida/%c4mnesomr%e5den/V%e4xt%2C+milj%f6+&+vatten/Genteknik> (direct link to GMO)

National Food Administration

Rules and regulations, lists and information about GMO in foodstuffs.

<http://www.slv.se> (Portal page )

### ***The list of risks – seeds***

The following products are found in different varieties that are genetically modified. For cultivation outside of Sweden must a separate risk judgement be done in each specific case. The following list is therefor complete in reference to known sorts of GMO, but risk judgement and suggestions for precautionary measures are relevant to Swedish conditions.

The levels of risks are to interpreted as follows:

- **Low** – the sort is normally not grown in Sweden, or is cultivated in a restricted scale. A few cultivations can be found in private gardens or greenhouses (hothouses ). Be careful with grains / seeds – notify KRAV if you notice anything out of the ordinary .
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- **Middle** – the sort is grown in Sweden and there are cultivations of GM sorts in restricted scale ( ex experimental cultivation ). Always contact KRAV if you cultivate of this sort of crop and receive information about or suspect that a GM sort is cultivated within two kilometers of your farm.



## Translation of KRAV's quality manual

Chapter	<b>5. Certification</b>	Page	3 (of 3)
Document name	<b>5.2.2.4.5 GMO Risk list</b>	Edition	2
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- High** – the sort is commercially grown in a GM sort in Sweden. Always contact KRAV if you cultivate a crop of this sort and receive information about or suspect that a GM sort is cultivated within two kilometers of your farm. KRAV will always try to negotiate between all the affiliates which are located in the vicinity of known cultivation. KRAV can even request analytic results concerning GMO contamination of the harvest.

If you want to contact KRAV about grains / seeds and GMO, please send an e-mail to: [lantbruk@krav.se](mailto:lantbruk@krav.se) or call +46 18 10 02 90.

Species – scientific name	Species – Swedish name	Species - English name	Risk level	Comments
	Bomull	Cotton	Low	
Beta vulgaris Ssp. vulgaris var. rapacea	Foderbeta	Fodder beet/mang el	Low.	
Zea mays	Majs	Corn	Middle	GM corn is common i the world, but GM corn is not grown in Sweden
Syzygium aromaticum	Nejlika (prydnadsväxt)	Carnation	Low	
Carica papaya	Papaya		Low	
Solanum tuberosum	Potatis	potatoes	Middle	Experimental in southern Sweden
Brassica napus Ssp. napus	Raps	Oilseed Rape	Middle	Contaminated rapes (and possibly seeds) have unintentionally spread in Europe.
Cichorium intybus	Rosésallat		low	
Beta vulgaris Ssp. Vulgaris var. altissima	Sockerbeta	Sugar beet	middle	
Glycine max	Sojabönor	Soja beans	middle	GM soya is common worldwide, but soya is not normally grown in Sweden.
Cucurbita pepo	Squash	squash	low	
Lycopersicon lycopersicum	Tomat	tomatoes	low	

### **The list of risks - Animals**

Presently there are no known GM animals in commercial production.

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## Translation of KRAV's quality manual

Chapter	<b>5. Certification</b>	Page	4 (of 4)
Document name	<b>5.2.2.4.5 GMO Risk list</b>	Edition	2
Date of issue	2002-07-29		
Name of issuer	Ewa B, cert off	Translation authorised by	Johan C

Species – scientific name	Species – Swedish name	Species – English name	Risk level	Comments

### **List of risks – production aids, crop production**

Presently there are no known risks for production aids in crop production. This does not mean that GMO cannot occur. Please contact KRAV via e-mail [lantbruk@krav.se](mailto:lantbruk@krav.se) or call (46) 018-10 02 90 if you suspect contamination.

Type of production aid	Example of products name	Risk factor	Comments

### **List of risks – production aids, animal husbandry**

Type of production-aids	Example of product name	Risk factor	Comments
medicine - vaccine			
Fodder – concentrated feed		Soya beans Soya flour	KRAV may ask for analytical test on fodder or a GMO-free certificate
Byproducts from brewing and distilling production	Distillers wash, mash et cetera	Gene modified yeast	” KRAV may ask for analytical test on fodder or a GMO-free certificate
Vitamins	B12		

### **List of risks – additives and process aids**

KRAV affiliates should always acquire a certificate showing GMO free products for the process aids and additives which are listed below . KRAV can even request analytic results concerning the product.

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## Translation of KRAV's quality manual

Chapter	<b>5. Certification</b>	Page	5 (of 5)
Document name	<b>5.2.2.4.5 GMO Risk list</b>	Edition	2
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If you suspect that a GMO or other products from GMO exist in other products than those listed below – please contact KRAV via e-mail [foretag@krav.se](mailto:foretag@krav.se) or call (46) 018-10 02 90.

Type of additive or process aids	Common product name	Risk factor	Comments
Citric acid (E 330)			
Lecithin (E 300)			
Enzymes			

### **List of risks - raw material in food production**

KRAV-approved raw products should normally be free from GMO. Mistakes and falsities do occur and are discovered in cooperation with our affiliates. You should always notify KRAV if you receive a raw products which you suspect might be GMO contaminated.

For products which are based on crops which can be found on the list of risks for grains / seeds ( see the list above ) an affiliate to KRAV should always acquire a certificate showing GMO free products. KRAV can even request analytic results concerning such raw materials. Contact KRAV if you are uncertain to the contents of such a GMO- free certificate.

Please note that KRAV's focus is on GMO and products from GMO. An oil is not allowed to be pressed from a GMO, even if there are no traces of the actual plant remaining in the oil.

Type of raw material	Common product name	Risk factor	Comments
Tofu		Soya beans	
Soya-sauce		Soya beans	
Glucose		A product of starch from potatoes or corn.	
Maltodextrines		A product of starch from corn or potatoes	