

## **Analysis of noxious plant species and powdery mildew in animal feed consisting whole grains, peas and seeds**

Kimen Såvarelaboratoriet (Kimen Seed Laboratory) carries out several types of seed analyses, including seed determination in animal feed.

**Anyone who import, produces and markets whole grains, peas and seeds for feed in Norway** must familiarise themselves with the requirements for noxious species and substances. For some species/substances, a laboratory analysis is the easiest way to meet the requirements. The most common species examined by laboratory analysis are wild oats (*Avena fatua*), ragweed (*Ambrosia* spp.) and hemp (*Cannabis Sativa*). Be aware of different requirements for the content of powdery mildew (sclerotia of *Claviceps purpurea*) in batches of pure sunflower and batches with whole grains (e.g. wild bird mixtures containing wheat grains). **For information on regulations, please refer to the Norwegian Food Safety Authority** (information page in Norwegian on *Businesses that import, produce or market whole grains, peas and seeds as animal feed*: [Norwegian Food Safety Authority](#))

Animal fodder products such as fat balls, tallow products, horse muesli etc. must also be checked for the content of noxious species. If the content of composite products can be documented throughout the production process, the raw materials can be submitted for analysis, instead of the final products. The documentation must be easily accessible to the company in Norway. Contact The Norwegian Food Safety Authority for more information.

In addition to the species/substances that regulates the distribution of whole grains, peas and seeds as animal feed, it is desirable to reduce the occurrence of *Echinochloa crus-galli* (Cockspur), a weed originating in Africa and Asia, now expanding in Europe. There is no requirement for the content of *E. crus-galli* in animal feed. However, it is desirable to prevent its spread, and seeds produced in Norway are not allowed to contain seeds of *E. crus-galli*. See [www.lovdata.no](http://www.lovdata.no) - Regulation on seed production).

Determination and counting of seeds are time-consuming and require well-trained seed analysts. To lower the time spent, not all kernels of the noxious seed are normally counted. If a noxious species is found (above a specified number or weight), the analysis for this species is terminated, and continued for the other species.

**The order form must always be accompanying the samples** (order form: [www.kimen.no](http://www.kimen.no)). Pack and send the samples in such a way that the packaging does not break.

If there is a need for analysis of the number of seeds of the individual species, or identification of all the species in a sample, please use the comments field in the order form

With regards  
*Kimen Såvarelaboratoriet*  
September 2023

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<b>Mail address</b>	<b>Visiting address</b>	<b>Telephone</b>	<b>Website</b>	<b>Organization number</b>
Kimen Seed Laboratory P.O. Box 60 N-1401 Ski Norway	Glynitveien 30 N - 1400 Ski	+47 64 97 06 60	<a href="http://www.kimen.no">www.kimen.no</a>	NO 987 003 995 VAT
			<b>Email</b>	<b>Bank account</b>
			<a href="mailto:savarekont@kimen.no">savarekont@kimen.no</a>	1100.11.81264