



Innspill til EFSA-nett 15/10-07

Maize 1507x59122,
EFSA/GMO/NL/2005/15

7.9

Scientific studies, also very recent ones, have shown that the Cry1Ac protein is a potent systemic and mucosal adjuvant, which is an enhancer of immune responses. The GMO Panel of the Norwegian Scientific Committee for Food Safety find it difficult, based on the available data, to assess whether kernels from maize 1507x59122 may cause more allergenic reactions than food and feed from unmodified kernels. As the different Cry proteins are closely related, and in view of the experimental studies in mice, the GMO Panel finds that the likelihood of an increase in allergenic activity due to Cry34Ab1, Cry35Ab1 and Cry1F proteins in food and feed from maize 1507x59122, cannot be excluded. Thus, the Panel's view is that as the adjuvant effect of Cry34Ab1, Cry35Ab1 and Cry1F with reasonable certainty cannot be excluded, the applicant in relation to a possible adjuvant effect of Cry34Ab1, Cry35Ab1 and Cry1F must comment upon the mice studies showing humoral antibody response of Cry1A proteins. Further, although the Cry34Ab1, Cry35Ab1 and Cry1F proteins is rapidly degraded in gastric fluid after oral uptake, there is also the possibility that the protein can enter the respiratory tract after exposure to e.g. mill dust.

References:

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