



VKM Bulletin 2025: 27

Assessment of genetically modified soybean MON 94637 for food and feed uses, import and processing under Regulation (EC) No 1829/2003 (application GMFF-2023-21116 (188))

Scientific Opinion of the Panel on genetically modified organisms of the Norwegian Scientific Committee for Food and Environment

VKM Bulletin 2025: 27

Assessment of genetically modified soybean MON 94637 for food and feed uses, import and processing under Regulation (EC) No 1829/2003 (application GMFF-2023-21116 (188))

Scientific Opinion of the Panel on genetically modified organisms – food and feed of the Norwegian Scientific Committee for Food and Environment
08.12.2024

ISSN: 2704-168

Norwegian Scientific Committee for Food and Environment (VKM)

Postboks 222 Skøyen

0213 Oslo

Norway

Phone: +47 21 62 28 00

Email: vkm@vkm.no

vkm.no

Cover photo: Colourbox

Suggested citation: VKM, Monica Sanden, Eirill Ager-Wick, Johanna Bodin, Nur Duale, Anne Marthe Ganes Jevnaker, Kristian Prydz, Volha Shapaval, Ville Erling Sipinen and Tage Thorstensen (2025). Assessment of genetically modified soybean MON 94637 for food and feed uses, import and processing under Regulation (EC) No 1829/2003 (application GMFF-2023-21116 (188)). Scientific Opinion of the Panel on genetically modified organisms – food and feed. VKM Bulletin 2025: 27, ISSN: 2704-168. Norwegian Scientific Committee for Food and Environment (VKM), Oslo, Norway.

Assessment of genetically modified soybean MON 94637 for food and feed uses, import and processing (application GMFF-2023-21116 (188)) under regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed

Authors of the opinion

The authors have contributed to the opinion in a way that fulfils the authorship principles of VKM (VKM, 2019). The principles reflect the collaborative nature of the work, and the authors have contributed as members of the VKM Panel on genetically modified organisms.

Members of the Panel on genetically modified organisms (in alphabetical order after chair of the Panel): Monica Sanden (Chair), Eirill Ager-Wick, Johanna Bodin, Nur Duale, Kristian Prydz, Volha Shapaval and Tage Thorstensen

VKM staff (in alphabetical order): Anne Marthe Ganes Jevnaker and Ville Erling Sipinen

Table of Contents

Summary	5
Sammendrag	6
1 Background as provided by the Norwegian Food Safety Authority and the Norwegian Environment Agency	7
2 Assessment of genetically modified soybean MON 94637 (application GMFF-2023-21116 (188))	8
2.1 Comments during the EFSA scientific consultation-period	8
2.2 Considerations after EFSA's publication of their scientific opinion – part 1.....	11
2.3 Considerations after EFSA's publication of their scientific opinion – part 2.....	12
3 Conclusions	13
4 References	14

Summary

Genetically modified soybean MON 94637 was developed through *Agrobacterium tumefaciens* mediated transformation of soybean tissue to express Cry1A.2 and Cry1B.2 proteins conferring resistance to lepidopteran (order of butterflies and moths) pests.

The scientific documentation provided in the application for soybean MON 94637 is adequate for risk assessment, and in accordance with EFSA guidance on risk assessment of genetically modified plants for use in food or feed. The VKM GMO panel does not consider the introduced modifications in soybean MON 94637 to imply potential specific health or environmental risks in Norway, compared to EU-countries.

Sammendrag

Genmodifisert soya MON 94637 ble utviklet ved transformasjon av celler ved hjelp av *Agrobacterium tumefaciens*. MON 94637 uttrykker de transgene proteinene Cry1A.2 og Cry1B.2 som gjør planten resistent mot skadegjørende insekter innen ordenen Lepidoptera (sommerfugler og møll).

Den vitenskapelige dokumentasjonen i søknaden er dekkende for risikovurdering, og i samsvar med EFSA's retningslinjer for risikovurdering av genmodifiserte planter til bruk i mat eller fôr. VKMs faggruppe for GMO anser ikke at genmodifiseringene i soya MON 94637 tilsier en økt helse- eller miljørisiko i Norge sammenlignet med EU-land.

1 Background as provided by the Norwegian Food Safety Authority and the Norwegian Environment Agency

The Norwegian Food Safety Authority (NFSA) and the Norwegian Environment Agency (NEA) have assigned VKM to perform assessments of genetically modified organisms (GMOs) and derived products thereof, for which there are sought approval of authorisation to the European market under the Regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed. VKM is requested to perform assessments for all GMO applications made accessible through the EFSA Document Management System (DMS), where the focus should be on potential health or environmental risks specific to Norway compared to the EU.

2 Assessment of genetically modified soybean MON 94637 (application GMFF-2023-21116 (188))

2.1 Comments during the EFSA scientific consultation-period

When EFSA submits an application for scientific consultation with a three-month commenting deadline, VKM shall initiate the scientific assessment. From the application is submitted for scientific consultation until EFSA has published its Scientific Opinion (6.5 months + the period when 'the clock stops') VKM should:

- Use this period to assess the scientific quality of the documentation presented in the application. Possible lack of essential information and other relevant scientific literature should be addressed. The application must be in compliance with Regulation (EU) No. 503/2013 and adhere to EFSA guidance (EFSA 2010, 2011) for risk assessment of genetically modified organisms.
- Provide comments to EFSA within the deadline and inform The Norwegian Food Safety Authority (NFSA) and the Norwegian Environment Agency (NEA) no later than two weeks before the deadline. If no comments are provided to EFSA, VKM notifies the NFSA and NEA for the reasons why no comment was submitted.
- Assess whether there are considerations specific to Norway that need to be addressed. If such considerations are identified VKM should immediately inform the NFSA and NEA.

Stage 1**1. Application****GMFF-2023-21116 (188)**Genetically modified soybean MON
94637**2. Information related to the genetic modification:**

Genetically modified soybean MON 94637 was developed through *Agrobacterium tumefaciens* mediated transformation of soybean tissues to express Cry1A.2 and Cry1B.2 proteins conferring resistance to lepidopteran (order of butterflies and moths) pests.

Genes**Proteins***cry1A.2*

Cry1A.2

cry1B.2

Cry1B.2

3. Previously assessed by VKM

YES:

NO: X

4. If yes in item 3. – comments from VKM:**5. Date when EFSA declared the application as valid in accordance with Articles 6(1) and 18(1)**

29.04.2024

6. Deadline of EFSA's commenting period

03.08.2024

7. VKM's assessment of the documentation in the application

Applicants' documentation:

The VKM Panel on genetically modified organisms finds the documentation provided as satisfactory for risk assessment.

Additional literature used by VKM:

No

Documentation in compliance with Regulation (EU) No. 503/2013:

YES: X

NO:

Documentation in accordance with EFSA guidance for risk assessment of genetically modified plants (EFSA 2010, 2011):

YES: X

NO:

8. Comments submitted from VKM during EFSA's public consultation	YES:	NO: X
9. Date of submission from VKM		
10. Comment(s) to EFSA:		
11. If NO in item 8. – comments from VKM:		
Application is in accordance with the EFSA guidance on genetically modified plants.		
12. Need for national consideration(s)	YES:	NO: X
13. If YES in item 12. – comments from VKM:		
14. If NO or NA in item 12. – comments from VKM:		
The VKM GMO Panel does not consider the introduced modifications in event MON 94637 to imply potential specific health or environmental risks in Norway, compared to EU-countries.		
15. VKMs conclusion regarding the application:		
The scientific documentation provided in the application is adequate for risk assessment, and in accordance with the EFSA guidance on risk assessment of genetically modified plants for use in food or feed.		

2.2 Considerations after EFSA's publication of their scientific opinion – part 1

When EFSA publishes their scientific opinion together with the comments from the member states, VKM shall within two weeks inform the NFSA and EEA on the following:

- Are EFSA's answer(s) to the Norwegian comments satisfactorily answered, or do VKM still have scientific objections to EFSA's conclusions
- Do EFSA's answers to comments from member states indicate need for follow-up by VKM
- Considerations specific to Norway

Stage 2	
1. Date of publication of EFSA opinion	23.10.25
2. VKMs deadline for informing NFSA and EEA	23.11.25
3. If YES in item 8. (table 1)– Answer from EFSA has been considered by VKM as satisfactory (Annex G)	NA
4. If YES in item 3 – Comments from VKM:	
5. If NO in item 3 – Comment(s) and further considerations from VKM:	
6. Follow-up item 12 (table 1) – comments from VKM	
The VKM GMO Panel does not consider the introduced modifications in event MON 94637 to imply potential specific health or environmental risks in Norway, compared to EU-countries.	
7. Considerations from VKM regarding comments from EU member states and other countries under Annex G:	
No member state comments imply the need for follow-up by VKM.	

2.3 Considerations after EFSA's publication of their scientific opinion – part 2

If VKM's comments regarding health and environmental risk are not considered to be satisfactorily answered by EFSA, VKM shall within three months carry out a risk assessment of these conditions, as well as conditions specific to Norway. VKM shall highlight uncertainty and knowledge gaps. It shall be stated in what area there are knowledge gaps, and whether the uncertainty, quality of the data, and knowledge gaps will affect the conclusion.

Stage 3		
1. Need for further assessment(s)	YES:	NO: X
2. If YES in item 1. – Further considerations from VKM:		
3. If NO in item 1. – comments from VKM:		
The scientific documentation provided in the application is adequate for risk assessment, and in accordance with the EFSA guidance on risk assessment of genetically modified plants for use in food or feed.		
The EFSA opinion is adequate also for Norwegian considerations.		
4. Need for national considerations	YES:	NO: X
5. If YES in item 4. – comments from VKM:		
6. If NO in item 4. – comments from VKM		
The VKM GMO Panel does not consider the introduced modifications in soybean MON 94637 to imply potential specific health or environmental risks in Norway, compared to EU-countries.		
7. Need for a risk assessment	YES:	NO: X
8. Date of deadline for risk assessment	NA	
9. Date of publication of assessment	08.12.25	

3 Conclusions

The VKM GMO Panel has performed an assessment of genetically modified soybean MON 94637. Soybean MON 94637 expresses the transgene proteins Cry1A.2 and Cry1B.2 that confer resistance to lepidopteran (order of butterflies and moths) pests.

The VKM GMO panel has assessed the documentation in the application GMFF-2023-21116 (#188). The scientific documentation provided in the application is adequate for risk assessment, and in accordance with EFSA guidance on risk assessment of genetically modified plants for use in food or feed. The VKM GMO panel does not consider the introduced modifications in soybean MON 94637 to imply potential specific health or environmental risks in Norway, compared to EU-countries.

The GMO panel does not consider the introduced modifications in soybean MON 94637 to imply potential specific health or environmental risks in Norway, compared to EU-countries. The EFSA opinion is adequate also for Norwegian considerations.

4 References

EFSA (2010) Guidance on the environmental risk assessment of genetically modified plants. Scientific opinion from the EFSA Panel on Genetically Modified Organisms (GMO). The EFSA Journal 8 (11):1-111 <http://www.efsa.europa.eu/en/efsajournal/doc/1879.pdf>

EFSA (2011) Guidance for risk assessment of food and feed from genetically modified plants. The EFSA Journal 9(5): 2150. <http://www.efsa.europa.eu/en/efsajournal/doc/2150.pdf>

EFSA (2025) Assessment of genetically modified soybean MON 94637 (application GMFF-2023-21116) EFSA Journal. 2025;23:e9581.
<https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2025.9581>