

**Opinion of the European Food Safety Authority in accordance with  
Articles 6 and 18 of Regulation (EC) No. 1829/2003 on  
application EFSA-GMO-NL-2006-36**

**Application for the placing on the market of genetically modified soybean  
MON89788 for food and feed uses from Monsanto.**

**(Question No. EFSA-Q-2006-182)**

**11 July 2008**

**Summary**

This document provides an overall opinion of the European Food Safety Authority on genetically modified soybean MON89788 in accordance with the requirements of Articles 6 and 18 of Regulation (EC) No. 1829/2003.

The scope of this application is genetically modified soybean MON89788 for food and feed uses<sup>1</sup>, food and feed containing, consisting of or produced from soybean MON89788. The scope includes/does not include cultivation.

The Scientific Panel on Genetically Modified Organisms has carried out the scientific assessment of genetically modified soybean MON89788 in accordance with Articles 6(6) and 18(6) of Regulation (EC) No. 1829/2003 and considers that the genetically modified soybean MON89788 is unlikely to have any adverse effect on human and animal health or on the environment in the context of its intended uses.

The Community Reference Laboratory considers the method validated as fit for the purpose of regulatory compliance. The certified reference materials of soybean MON89788 can be accessed at the American Oil Chemist's Society (AOCS- USA).

The information presented for the Cartagena Protocol, the labelling proposal and the monitoring plan are in line with Regulation (EC) No. 1829/2003.

Under the terms of the Regulation (EC) No. 1829/2003, the overall opinion fulfils the requirements of Articles 6 and 18 for the placing on the market of genetically modified soybean MON89788.

<sup>1</sup> This does include GM soybean for import and processing as designated under part C of Directive 2001/18/EC

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## Background

On 7 November 2006, the European Food Safety Authority (EFSA) received from the Competent Authority from the Netherlands an application for authorisation of GM soybean MON89788 (MON-89788-1) submitted by Monsanto within the framework of Regulation (EC) No. 1829/2003 on genetically modified food and feed (reference EFSA-GMO-NL-2006-36).

The scope of this application is genetically modified MON89788 for food and feed uses<sup>2</sup>, food and feed containing, consisting of or produced from MON89788. The scope does not include cultivation.

In accordance with Articles 5 and 17 of Regulation (EC) No. 1829/2003, EFSA informed the Member States and the European Commission and made the summary of the application publicly available on the EFSA website<sup>3</sup> on 10 November 2006. EFSA initiated a completeness check of the application to check compliance with the requirements laid down in Articles 5 and 17 of Regulation (EC) No. 1829/2003. On 19 October 2006, the Community Reference Laboratory (CRL) confirmed receipt of the detection method, samples and control samples in accordance with Articles 5 and 17 of Regulation (EC) No. 1829/2003. EFSA declared the application valid on 8 June 2007 and started the clock in accordance with Articles 6 and 18 of Regulation (EC) No. 1829/2003.

From that date, EFSA has endeavoured to respect a time limit of 6 months in giving its overall opinion (Articles 6(1) and 18(1)). EFSA made the valid application available to Member States and the European Commission. Following the procedure laid down in Articles 6(4) and 18(4) of Regulation (EC) No. 1829/2003, EFSA consulted the Member States. In this context, the Member States risk assessment bodies, as well as the national competent authorities under Directive 2001/18/EC, were given three months after the date of receipt of the valid application (*i.e.* until 8 September 2007) within which to make their opinion known.

Making use of the provisions under Articles 6(2) and 18(2), EFSA requested additional information from the applicant and the clock was stopped from 15 October 2007 to 10 June 2008<sup>4</sup>.

The overall opinion on application EFSA-GMO-NL-2006-36 includes the scientific opinion of the Scientific Panel on Genetically Modified Organisms (GMO Panel) together with the particulars required under Articles 6(5)(a-g) and 18(5)(a-g) of Regulation (EC) No. 1829/2003: i) the name and address of the applicant, ii) the designation of the food and its specification, iii) the information required under Annex II to the Cartagena Protocol, iv) the labelling proposal, v) the method for detection, validated by the Community Reference Laboratory, including sampling,

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<sup>2</sup> This does include GM soybean MON89788 for import and processing as designated under part C of Directive 2001/18/EC

<sup>3</sup> [http://www.efsa.eu.int/science/gmo/gm\\_ff\\_applications/catindex\\_en.html](http://www.efsa.eu.int/science/gmo/gm_ff_applications/catindex_en.html)

<sup>4</sup> Request for additional information from EFSA-GMO Panel: requested (1) on 19/10/2007 - received on 30/10/2007, remain stopped (2) on 21/12/2007 and on 21/01/2007 - received on 08/02/2008, 18/02/2008 and 28/02/2008, requested (3) on 18/03/2008 - received on 05/05/2008, accepted on 10/06/2008.

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identification of the transformation event in the food-feed and/or foods-feeds produced from it, vi) an indication of where appropriate reference materials can be accessed, vii) the monitoring plan and viii) Member States' comments submitted during the three-month consultation period.

### **Applicant**

The application was submitted by  
Monsanto Europe S.A.  
Avenue de Tervuren 270-272  
B-1150 Brussels  
Belgium

Monsanto Company  
800 N. Lindbergh Boulevard  
St. Louis, Missouri 63167  
U.S.A.

### **Designation and specification of the product**

The scope of this application is genetically modified soybean MON89788 for food and feed uses<sup>5</sup>, food and feed containing, consisting of or produced from GM soybean MON89788. The scope includes/does not include cultivation.

Genetically modified soybean MON89788 is developed to provide tolerance to glyphosate by expressing the EPSPS protein.

### **Scientific opinion of the GMO Panel**

The GMO Panel has carried out the scientific assessment of the genetically modified soybean MON89788 in accordance with Articles 6(6) and 18(6) of Regulation (EC) No. 1829/2003 and adopted its scientific opinion on 02 July 2008. The GMO Panel considered all comments submitted by Member State bodies and where deemed necessary, requested additional information from the applicant before finalising its scientific assessment. The GMO Panel concludes that the information available for GM soybean MON89788 addresses the scientific comments raised by the Member States and considers that GM soybean MON89788 is unlikely to have any adverse effect on human and animal health or the environment in the context of its intended uses (Annex A).

### **Cartagena Protocol**

The information presented in the application and as required under Annex II of the Cartagena Protocol on Biosafety is in line with the scientific opinion of the GMO Panel (Annex B).

### **Labelling**

The labelling proposal provided in the application is in line with the requirements in Regulation (EC) No. 1829/2003. On the basis of the scientific opinion of the GMO Panel that GM soybean MON89788 is compositionally and phenotypically equivalent to its non-genetically modified

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<sup>5</sup> This does include GM soybean MON89788 for import and processing as designated under part C of Directive 2001/18/EC

soybean MON89788 except for the introduced traits, EFSA is of the opinion that there is no need for a specific labelling in accordance with Articles 13(2)(a) and 25(2)(c) (Annex C).

#### **Method for detection**

The Joint Research Centre (JRC) as Community Reference Laboratory for the GM Food and Feed has carried out a collaborative study to assess the performance of a quantitative event-specific method to detect and quantify the MON89788 transformation event in soybean DNA. The reports were published on 18 February 2008. The Community Reference Laboratory considers that the method is applicable to the control samples provided, in accordance with the requirements of Annex I-2.C.2 to Commission Regulation (EC) No 641/2004 (Annexes D1, D2, D3).

#### **Certified reference materials**

The certified reference materials of genetically modified soybean MON89788 can be accessed at American Oil Chemist's Society (AOCS– USA) (Annex E).

#### **Post market environmental monitoring**

The GMO Panel evaluated the environmental monitoring plan proposed by the applicant. The GMO Panel considered that the monitoring plan provided by the applicant is in line with the intended uses for the GMO (Annex F).

#### **Member States' Comments**

In line with the procedure<sup>6</sup> adopted by EFSA, the GMO Panel has addressed the comments submitted by the Member States during the three months consultation period (Annex G).

#### **List of annexes:**

- Annex A: Scientific opinion of the GMO Panel (soybean MON89788)
- Annex B: Cartagena Protocol (soybean MON89788)
- Annex C: Labelling (soybean MON89788)
- Annex D1: Validation report (soybean MON89788)
- Annex D2: Validated method (soybean MON89788)
- Annex D3: Sampling and extraction (soybean MON89788)
- Annex E: Certified reference materials report (soybean MON89788)
- Annex F: Post market monitoring plan (soybean MON89788)
- Annex G: Member States' comments (soybean MON89788)

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<sup>6</sup> EFSA Strategy document  
[http://www.efsa.europa.eu/etc/medialib/efsa/science/gmo/109.Par.0010.File.dat/gmo\\_actionplan1.pdf](http://www.efsa.europa.eu/etc/medialib/efsa/science/gmo/109.Par.0010.File.dat/gmo_actionplan1.pdf)