

APPENDIX 3

LITERATURE SEARCH TO SUPPORT GENERAL SURVEILLANCE OF 2023/2024 ANNUAL POST MARKET ENVIRONMENTAL MONITORING REPORTS OF BAYER GM SOYBEAN PRODUCTS

Data protection.

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SUMMARY

The literature search was conducted in accordance with the 2019 EFSA explanatory note on literature searching conducted in the context of GMO applications^{1,2} to support general surveillance of 2023/2024 annual post market environmental monitoring reports. It addresses the review question “Do Bayer GM soybean products, derived food/feed products and their respective introduced traits have adverse effects on human and animal health and the environment?”.

Eligibility/inclusion criteria to establish the relevance of retrieved publications was determined following the criteria described in the 2019 EFSA explanatory note on literature searching². Literature searching for Bayer GM soybean products was conducted in electronic bibliographic databases and internet pages of relevant key organisations.

In line with the requirements in the 2019 EFSA explanatory note on literature searching² the literature search covered the time span 2023 – 2024 to capture any publication published during the annual general surveillance of 2023/2024 post market environmental monitoring season.

The literature search retrieved four publications as relevant. These publications did not have any implication on the risk assessment, because no new hazard, modified exposure, or new scientific uncertainty is reported.

The comprehensive literature search found no new information that would invalidate the conclusions of the risk assessment for Bayer GM soybean products.

¹ Hereafter referred to as 2019 EFSA explanatory note on literature searching.

² EFSA, 2019. [Explanatory note on literature searching conducted in the context of GMO applications for \(renewed\) market authorisation and annual post-market environmental monitoring reports on GMOs authorised in the EU market - Note on literature searching to GMO risk assessment guidance. EFSA journal, 2019:EN-1614, 1-62.](#) – Accessed on 25 September 2024

1. INTRODUCTION

As part of the general surveillance requirements for Bayer GM soybean products authorised in the European Union (EU) market under regulation (EC) No 1829/2003, Bayer Agriculture BV³ has actively monitored the soybean products by conducting quarterly literature searches covering the time span between June 2023 and May 2024.

The results of the literature search that were analysed in detail according to the relevance for the risk assessment of the Bayer GM soybean products are presented here.

The Appendix completeness checklist is provided with this report.

2. FORMULATING THE REVIEW QUESTION AND CLARIFYING ITS PURPOSE

This literature search has been conducted to address the review question “Do Bayer GM soybean products, derived food/feed products and respective introduced traits have adverse effects on human and animal health and the environment?”

The purpose for undertaking this literature search is to support general surveillance of 2023/2024 annual post market environmental monitoring (PMEM) reports in accordance with the 2019 EFSA explanatory note on literature searching².

Key elements used for the review question are humans, animals, and/or the environment (= population), Bayer GM soybean products, derived food/feed products and respective introduced traits (= intervention/exposure), conventional counterpart or non-GM soybean (= comparator), and adverse effect on human and animal health, and the environment (= outcomes). Accordingly, the eligibility criteria for assessing the relevance of publications for inclusion in the literature review are provided in **Table 1**.

³ Hereafter referred to as Bayer.

Table 1. Eligibility/inclusion criteria to establish the relevance of publications

Key elements	Criteria
Population	Humans, animals and the environment (taking into account the scope of the applications) <i>i.e.</i> authorisation for all uses as any other soybean but excluding the cultivation of Bayer GM soybean products are addressed as general protection goals.
Intervention/exposure	Bayer GM soybean products derived food/feed products and corresponding introduced traits addressed in the publication are identical or similar to those under scientific review by the EFSA.
Comparator	In case of a comparative study that uses the GM plant material as test material, eligible publications must report a non-GM soybean as a comparator.
Outcomes	Adverse effects on human and animal health and the environment are addressed (taking into consideration the scope of the applications).
Additional key elements	
Stacked events	The single events addressed in the publication are the single events in stacked Bayer GM soybean products. Stacked Bayer GM soybean products are addressed in the study.
Information/ data requirements, including source of publications data	The publication potentially contributes to the knowledge of the risk assessment of Bayer GM soybean products for all uses as any other soybean but excluding cultivation. Original/primary data are presented in the publication.

The eligibility/inclusion criteria implemented by Bayer for assessing the relevance of publications follow the recommendations described in the 2019 EFSA explanatory note on literature searching². Following a conservative approach, Bayer selected the broad inclusion/eligibility criteria that align with the review question and the scope of the Bayer GM soybean products' authorisations. Hence, given the conservative approach taken when selecting the eligibility/inclusion criteria, conducting a pilot study was considered unwarranted.

When necessary, the eligibility criteria and/or process may be modified/reviewed as a result of for example new regulatory guidance or novel topics on literature regarding the risk assessment of GM plants.

3. SEARCHING FOR/ IDENTIFYING RELEVANT PUBLICATIONS

In accordance with the 2010 EFSA Guidance on application of systematic review methodology to food and feed safety assessments to support decision making⁴ and the 2019 EFSA explanatory note on literature searching², identification of bibliographic sources and development of search strategies were developed together with an information specialist who subsequently performed the literature search. The approach used to develop the search strategy follows a lumping method and includes a wide range of free-text terms and, where available, controlled vocabulary that defines search terms.

3.1. Sources of scientific literature

3.1.1. Electronic bibliographic databases

Bayer selects the SciSearch (Science Citation Index)⁵ and the CABA⁶ (CAB Abstracts®)⁷ databases to perform the literature search based on the coverage and relevance of the journals included in these databases. The literature search was conducted using the STN® database catalogue⁸.

The SciSearch, produced by from Clarivate Analytics (UK) Limited, includes over 45 million records in Science and technology published since 1974. It includes literatures captured under Science Citation Index Expanded™, a largest multidisciplinary scientific database and an international index covering all scientific topics. It contains also all the records published from the Current Contents series of publications as well as bibliographic information and cited references from over 5 600 scientific, technical and medical journals. In addition, “Records from January 1991 on include abstracts, author keywords, and KeyWords Plus®. Bibliographic information, authors, cited references, and KeyWords Plus® are searchable”⁵. The database is updated on a weekly basis.

The CABA, produced by CAB international (UK), includes over 8.9 million records in agriculture and life sciences published since 1973. The database “covers worldwide literature from all areas of agriculture and related sciences including biotechnology, forestry, and veterinary medicine. Sources for CABA include journals, books, reports, published theses, conference proceedings, and patents. Bibliographic information, indexing terms, abstracts, and CAS Registry Numbers are searchable. An online thesaurus is available for the Con-trolled Term (/CT), the Geographic term (/GT), and the Organism (/ORGN) fields”⁶. The database is updated on a weekly basis.

All journals included in the two databases must go through a verification process and as a minimum requirement, non-English language journals must include English-language bibliographic information (title, abstract, keywords) and be peer-reviewed^{7,9}. In general, English is considered the universal language of science. For this reason, the journals most

⁴ EFSA, 2010. [Application of systematic review methodology to food and feed safety assessments to support decision making The EFSA Journal, 1637, 1-90](#) - Accessed on 25 September 2024

⁵ STN/SciSearch: <https://www.stn-international.com/sites/default/files/stn/dbss/SCISEARCH.pdf> - Accessed 25 September 2024

⁶ STN/CABA: <https://www.stn-international.com/sites/default/files/stn/dbss/CABA.pdf> – Accessed on 25 September 2024

⁷ CAB Abstracts®: <https://www.cabi.org/publishing-products/online-information-resources/cab-abstracts/> - Accessed on 25 September 2024

⁸ STN®: <http://stn-international.de/sites/default/files/STN/brochures/stnfile-kat.pdf>- Accessed on 25 September 2024

⁹ Web of Science group; <https://clarivate.com/webofsciencegroup/solutions/webofscience-core-collection-editorial-selection-process/> - Accessed on 25 September 2024

important to the international research community will publish either full text or a minimum of bibliographic information in English, which is especially true in the scientific domain of natural sciences. Full text in English is highly desirable if the journal intends to serve an international community of researchers. Therefore, it is expected that even if there is a relevant article for the food and feed safety of GM plants in a language different than English, the article will include title/abstract/keywords in English, which will guarantee the retrievability of these articles when using keywords and keyword combinations in English.

Based on the above, the selected databases are, to our knowledge, comprehensive, multidisciplinary, conservative sources for literature searching and offer the broadest coverage to retrieve a largest breadth of possible relevant publications. Therefore, additional search sources are not deemed necessary.

3.1.2. Internet (world-wide-web) pages of relevant key organisations

In accordance with the 2019 Explanatory note on literature searching for GMO applications², the search in electronic bibliographic databases has been complemented with internet search in webpages of relevant key organisations involved in the risk assessment of GM plants.

Of the 14 key organisations cited in the 2019 Explanatory note on literature searching for GMO applications², nine¹⁰ are involved in risk assessment of Bayer GM soybean products. Three of the remaining five (CIBIOGEM, Environment and Climate Change Canada and OECD) are not involved in GM risk assessment while the other two (OGTR and GEAC), for the time being, only assess GM cotton and oilseed rape. Therefore, the internet search focused on the nine key organisations relevant for Bayer GM soybean products.

3.2. Search strategy (electronic databases)

3.2.1. Search terms and search strings

The intervention/exposure key elements were defined and translated into search terms. These search terms were identified following the below listed approaches in line with the 2019 EFSA explanatory note on literature searching²:

- assessing words in reference publications,
- assessing subject indexing terms,
- searching for synonyms and related terms and
- consulting experts and stakeholders.

Following the aforementioned approaches, possible synonyms, related terms, abbreviations including acronyms and truncations, old and new as well as lay and scientific terminologies, brand and generic names, and spelling variants including common typos of the search terms were considered. Where applicable, the search was also adapted to controlled vocabulary

¹⁰ Internet pages of the relevant key organisations for Bayer GM soybean products:
US EPA (<https://www.epa.gov/environmental-topics/science-topics>) - Accessed on 25 September 2024;
USDA (<https://www.usda.gov/media>) - Accessed on 25 September 2024;
US FDA (<https://www.fda.gov/>) - Accessed on 25 September 2024;
CFIA (<http://www.inspection.gc.ca/eng/1297964599443/1297965645317>) - Accessed on 25 September 2024;
Health Canada (<https://www.canada.ca/en/health-canada.html>) - Accessed on 25 September 2024;
FSANZ (<http://www.foodstandards.gov.au/Pages/default.aspx>) - Accessed on 25 September 2024;
CTNBio (<http://ctnbio.mctic.gov.br/>) - Accessed on 25 September 2024;
CONABIA (<https://www.argentina.gob.ar/>) - Accessed on 25 September 2024;
Japan MAFF (<http://www.maff.go.jp/e/>) - Accessed on 25 September 2024.

(subject indexing). The search terms were designed to give an excellent coverage and retrieve the broadest possible number of articles related to Bayer GM soybean products.

The translation of the intervention key elements into search terms are presented in **Annex I**. The search terms, the fields and the Boolean operators used to combine them were defined as shown in **Annex II**. The search strings were built following the STN[®] commands¹¹ to allow the literature search in the STN[®] database catalogue. The free-text search terms, controlled vocabulary and the search strings are updated upon identification of a new search term.

The search sets belonging to each key element as described in **Annex I** and **Annex II** were combined by 'OR' to retrieve all the identified publications excluding duplicates. The separate assessment of these search sets, including those yielding only a small number of publications, was considered not necessary as this would duplicate the literature screening process and alter the consistency and comprehensiveness used in the literature search strategies.

3.2.2. Limits applied

An advanced literature search was conducted using the web-based STN[®] database catalogue for both the selected electronic databases (*see* section 3.1.1). STN[®] enables searching in each electronic database by making use of pre-defined fields, set combinations based on Boolean operators or a combination of both¹². In STN[®], the results of the search from each database can be merged and duplicates can be removed by de-duplication.

The STN[®] literature search utilised "Basic Index" (None (or /BI)) field which utilises free-text search terms and enables comprehensive searching in different sections (*e.g.* title, abstract, keywords, supplementary terms, controlled terms) within a record^{5,6,11}. Where applicable, controlled vocabulary (subject indexes) offered by CABA (controlled terms (CT)) were also included in the search strategy. Controlled vocabulary is assigned by subject specialists to CAB records to represent the content of the source documents. It allows users to use only one term to search for a concept rather than using lots of terms¹³. The most relevant, broad and controlled terms in the hierarchy of CAB Thesaurus terms and that were listed as preferred terms by CAB for a search query were selected and added to the search string, as shown in **Annex I** and **Annex II**.

3.2.3. Language

The search terms and their combinations are established in English. Therefore, the search is expected to result in a list of titles, abstracts or keywords written in English, covering also articles written in other languages with at least a title, abstract or keywords in English. Also, as technical terms on proteins names, event codes, trade names and Latin names are common in all languages, the search is expected to retrieve articles in all languages.

¹¹ STN. [Command summary chart for bibliographic and full-text databases](#). – Accessed on 25 September 2024

¹² STNindex user guide: <https://stn.products.fiz-karlsruhe.de/training-center/documentation/stn-index-user-guide> - Accessed on 25 September 2024

¹³ CAB Direct advanced searching of CAB abstracts: <https://www.cabi.org/Uploads/CABI/publishing/training-materials/resources-by-interface/cab-direct-user-guides/advanced-searching-cab-abstracts.pdf> - Accessed on 25 September 2024

3.2.4. Time period

The literature searches covered the time span 1 June 2023 - 31 May 2024.

The literature search in the electronic databases was conducted on a quarterly basis considering the entry dates in the STN® database catalogue. **Table 2** shows the search dates and the time span of each search.

Table 2. Description of literature search periods in the electronic databases

Date of the search	Last database update dates	Search period
09 October 2023	SciSearch: 02 October 2023	30 May 2023 - 04 October 2023
	CABA: 04 October 2023	
08 February 2024	SciSearch: 05 February 2024	02 October 2023 - 05 February 2024
	CABA: 05 February 2024	
04 June 2024	SciSearch: 03 June 2024	05 February 2024 - 03 June 2024
	CABA: 03 June 2024	

3.2.5. Reference publications

In accordance with the 2019 EFSA explanatory note on literature searching², a list of reference publications is provided in **Annex III**. The reference publications were tested and retrieved using the search terms and strategy developed for Bayer GM soybean products.

3.3. Search strategy (relevant key organisations)

All records related to GMO applications and approvals published in the webpage of each relevant key organisation were screened based on ‘limits applied’ as described in the **Annex IV** and assessed for their relevance to Bayer GM soybean products.

The literature search in the internet pages of the relevant key organisations was conducted on 30 July 2024 and covered the time span 2023-2024.

4. SELECTING PUBLICATIONS

Publications retrieved from the literature search were screened for their relevance first and then the selected ones were evaluated for their reliability through detailed assessments. Relevance to the search scope and scientific reliability were rigorously assessed by internal and external technical experts.

4.1. Eligibility screening process

The process of selecting relevant publications was undertaken in two stages:

- **Rapid assessment** for the relevance based on information in the title and abstract of the publications, to exclude publications that are obviously irrelevant.
- **Detailed assessment** of full-text document if required. Full-text documents were obtained for those publications not excluded in the rapid assessment and those documents were assessed in detail for their relevance to the review question. Publications not excluded by the detailed assessment were classified as relevant. At this stage, publications must comply with all the eligibility/inclusion criteria and meet all key elements of the review question.

Experts with a solid experience in GM plants risk assessment performed the screening process. Based on the available comprehensive weight of evidence, the experts assessed if the conclusions of the risk assessment are still valid.

4.2. Reviewers

4.2.1. Number of reviewers

All publications that were identified by the search described in **Section 3** have been screened by three different reviewers (one internal and two external experts) with solid experience in the risk assessment of GM plants.

4.2.2. Expertise of reviewers

Besides their academic background, the reviewers have adequate expertise in the risk assessment areas of GM crops (molecular characterisation, food and feed safety, environmental safety) and several years of experience in the analysis and selection of relevant publications in literature searches for GM applications.

4.2.3. Inter-reviewer agreement

Reviewers (internal and external) perform their assessment in an independent sequential manner. They are in communication and meet on a regular basis to ensure consistent interpretation and implementation of eligibility/inclusion criteria and/or screening process. During the rapid assessment stage, retrieved abstracts and titles of publications are screened by each reviewer independently and assessed against each other to conclude on inclusion or exclusion based on eligibility/inclusion criteria. If opinions on relevance differ, the discrepancies are discussed between the reviewers and if a disagreement persists, the publication under discussion is *de facto* included in the next stage for further consideration. In summary, publications which appear to be relevant and those of unclear relevance, are progressed to the next stage.

During the detailed assessment, the selected publications are assessed in detail, independently and sequentially by the two external reviewers based on the full text of the publications. The publications screened by each reviewer are assessed against each other to conclude on inclusion or exclusion based on eligibility/inclusion criteria. If opinions on relevance differ between reviewers, all reviewers (external and internal) discuss the discrepancy as necessary and, if needed, consult additional internal reviewers to resolve the discrepancy.

If uncertainty remains, the publication is *de facto* reported as unclear providing a justification as suggested by the reviewers. In summary, publications, which appear to be relevant and those of unclear relevance, are reported.

This approach ensures a high-quality process as it allows a harmonised continuous publication screening process across different GM applications in accordance with the 2019 EFSA explanatory note on literature searching² and avoids missing publications due to bias towards certain eligibility criteria.

4.3. Classification of publications

Taking account of i) the review question, ii) the scope of the application, *i.e.* authorisation of Bayer GM soybean products for all uses as any other soybean but excluding cultivation in the EU and iii) the eligibility criteria to establish the relevance of retrieved publications, the list

of retrieved hits was assessed to conclude whether a certain publication was considered relevant or not. When a publication was considered relevant, the category the publication belongs to is indicated. The following is a non-exhaustive list of categories publications may belong to:

Food/Feed safety assessment

- Molecular characterisation
- Protein expression
- Crop composition
- Agronomic and phenotypic characteristics
- Toxicology - Animal feeding / *In vitro*
- Allergenicity of the protein or the whole food/feed
- Nutrition
- Protein / DNA/ RNA fate in digestive tract

Environmental safety assessment

- Spillage and consequences thereof

It should be noted that the selection criteria are well defined and reassessed annually.

4.4. Quality appraisal of the relevant publications

The relevant publications, if identified, are appraised in terms of reliability in accordance with the 2019 EFSA explanatory note on literature searching² by at least two individuals with technical expertise on the topic using the following steps categorised in two main areas:

Credibility of the publication

1. ***Does the publication include sufficient information to establish the reliability of the research?*** Publications with insufficient information (e.g., incomplete experimental design, publications for which only an abstract is publicly available) are categorised as “**not assignable**”. Others go to step 2.
2. ***Is the publication scientifically sound/reliable?*** Publications that do not contain scientifically sound/reliable information (e.g., inadequate methodology, test/control materials) are categorised as “**not reliable**”. Others go to step 3.

Appropriateness of the publication for the EFSA risk assessment

3. ***What is the relevance level of the publication for the EFSA risk assessment?*** Publications with low relevance for the EFSA risk assessment (e.g. publications dealing with wild relatives or pests not found in the EU) are categorised as “**low reliable**”. Publications with moderate relevance for the EFSA risk assessment (e.g., exploratory studies, research with limited focus on risk assessment) are categorised as “**moderately reliable**”. Whereas publications with high relevance for the EFSA risk assessment (e.g. research based on data collected for regulatory studies) are categorised as “**highly reliable**”.

In cases of disagreements, the evaluators discuss together and collectively determine the reliability of the publication.

5. SUMMARISING AND REPORTING THE DATA, AND CONSIDERING THE IMPLICATIONS OF THE FINDINGS

5.1. Search outcomes

5.1.1. Outcomes of literature search (electronic databases)

The literature searches identified a total of 359 hits in SciSearch and CABA databases after STN® automatic de-duplication (*see Annex II*). After an additional manual de-duplication, the total number resulted in 305 hits (*see Error! Reference source not found.*).

5.1.2. Outcomes of literature search (relevant key organisations)

The literature search in the internet pages of the nine relevant key organisations retrieved a total of 72 records. The links to the results of the literature search and the summary of the retrieved data are shown in **Annex IV**.

5.2. Results of the publication selection process

5.2.1. Results of the publication selection process (electronic databases)

The results of the publication selection process for the retrieved hits from the electronic databases are provided in **Annex V**. Three relevant publications were retrieved after detailed assessment of the full text documents.

For bibliographic details regarding these publications in .RIS format, see **Annex VI**.

For the full-text documents of the relevant publications, see the references folder within the Appendix 3_Literature search folder.

5.2.2. Results of the publication selection process (relevant key organisations)

The results of the publication selection process for the retrieved records from the relevant key organisations are provided in **Annex IV**. One record was identified as relevant. For the full-text document of the relevant publication, see **Annex IV**.

5.3. Considering the implications of the findings

The reliability assessment for the relevant publications is provided in **Annex V**. The one relevant record retrieved from the relevant key organisations (see **Annex IV**) is reliable since the rationale for the positive conclusions in those records are consistent with the results reported in the data package provided by Bayer. All the relevant publications have no implications for the risk assessment of Bayer GM soybean products because no new hazards, modified exposure, or new uncertainties are reported.

The comprehensive literature search for publications relevant to the food, feed, and environmental safety of Bayer GM soybean products found no new information that would invalidate the conclusions of the risk assessment Bayer GM soybean products.

6. CONCLUSION

Taking into consideration all the above, Bayer confirms that this literature search, conducted in accordance with the 2019 EFSA explanatory note on literature searching² to support the general surveillance in the context of 2023/2024 annual PMEM for Bayer GM soybean products, identified no relevant publications that would invalidate the conclusions of the Bayer GM soybean products previous risk assessments. Therefore, the conclusions of the risk

assessment as presented in the initial applications of the Bayer GM soybean products remain unchanged.

Annex I. Translation of intervention/exposure key elements into search terms for Bayer GM soybean products literature search in STN® database catalogue

1. Free-text search terms for Bayer GM Soybean products

Key elements	Search terms	Synonyms, related terms, abbreviations/ acronyms/ truncations, lay/ scientific terms, brand/ generic names and spelling variants/ typos (adapted for performing search in STN® database catalogue)
Event names	40-3-2 or MON-Ø4Ø32-6 MON 89788 or MON-89788-1 MON 87769 or MON-87769-7 MON 87701 or MON-877Ø1-2 MON 87705 or MON-877Ø5-6 MON 87708 or MON-877Ø8-9 MON 87751 or MON-87751-7 A5547-127 or ACS-GMØØ6-4	40!3!2 AND (SOY? OR GLYCINE MAX OR G. MAX)) OR MON 04032? OR MON04032? OR MON O4O32? OR MONO4O32? OR MON EMPTY SET4EMPTY SET32? OR MONEMPTY SET4EMPTY SET32? OR MON!04032? OR MON!O4O32? OR MON!EMPTY SET4EMPTY SET32? OR MON 89788? OR MON89788? OR MON!89788? OR OR MON 87769? OR MON87769? OR MON!87769? OR MON 87701? OR MON87701? OR MON 877O1? OR MON877O1? OR MON 877EMPTY SET1? OR MON877EMPTY SET1? OR MON!87701? OR MON!877O1? OR MON!877EMPTY SET1? OR MON 87705? OR MON87705? OR MON 877O5? OR MON877O5? OR MON 877EMPTY SET5? OR MON877EMPTY SET5? OR MON!87705? OR MON!877O5? OR MON!877EMPTY SET5? OR MON 87708? OR MON87708? OR MON 877O8? OR MON877O8? OR MON 877EMPTY SET8? OR MON877EMPTY SET8? OR MON!87708? OR MON!877O8? OR MON!877EMPTY SET8? OR MON 87751? OR MON87751? OR MON!87751? OR ((A5547!127 OR A5547 127) AND (SOY? OR GLYCINE MAX OR G. MAX)) OR ACS!GM006? OR ACS!GMOO6? OR ACS!GMEMPTY SETEMPTY SET6? OR ACS GM006? OR ACS GMOO6? OR ACS GMEMPTY SETEMPTY SET6?
Trade names	Roundup Ready® soybean Roundup Ready 2 Yield® soybean	ROUNDUPREADY? OR ROUND!UP!READY? OR ROUND!UP READY? OR ROUNDUP READY? OR ROUND UP READY? OR RR2Y? OR RRIIY?

	Vistive Gold™ soybean Intacta RR2 Pro® soybean Roundup Ready 2 Xtend® soybean Intacta 2 Xtend™ XtendFlex™ Soybean	OR INTACTA OR RR2 PRO? OR RRII PRO? OR VISTIVE? OR VISTIVE? GOLD? OR XTEND? OR XTENDFLEX? OR XTEND FLEX?
Newly expressed proteins	CP4 EPSPS DMO PAT Cry1Ac Cry1A.105 Cry2Ab2 Primula juliae Δ6 desaturase (Pj.D6D) and Neurospora crassa Δ15 desaturase (Nc.Fad3)	CP4EPSPS? OR CP4 EPSPS? OR 5(W)(ENOL PYRUVYL SHIKIMATE OR ENOLPYRUVYL SHIKIMATE OR ENOL PYRUVYL SHIKIMATE OR ENOL!PYRUVYL! SHIKIMATE! OR ENOLPYRUVYL SHIKIMATE)(W)3 PHOSPHATE(1W)SYNTHASE OR DICAMBA ?OXYGENASE OR DICAMBA ?DEMETHYLASE OR (DMO? AND (GENE OR ENZYME OR PROTEIN)) OR (PAT AND (GENE OR ENZYME OR PROTEIN)) OR (PHOSPHINOTHRICIN AND (ACETYL TRANSFERASE OR ACETYL!TRANSFERASE OR ACETYLTRANSFERASE)) OR CRY1AC OR CRYIAC OR CRY1 AC OR CRY 1 AC OR CRY 1AC OR CRYI AC OR CRY I AC OR CRY IAC OR OR CRY1A105 OR CRY1A 105 OR CRY 1A 105 OR CRY 1A105 OR CRYIA105 OR CRYIA 105 OR CRY IA 105 OR CRY IA105 OR CRY1A.105 OR CRY2AB? OR CRY2 AB? OR CRY 2 AB? OR CRY 2AB? OR CRYIIAB? OR CRYII AB? OR CRY II AB? OR CRY IIAB? OR OR PJ!D6D OR PJD6D OR PJ D6D OR NC!FAD3 OR NCFAD3 OR NC FAD3 OR NC!FAD 3 OR NCFAD 3 OR NC FAD 3 OR DESATURASE?
Newly expressed RNAs	FATB1-A and FAD2-1A gene segments	RNA? OR DSRNA? OR SIRNA?)(5A) OR (FAT! B? OR FAD!2? OR FAT B? OR FAD 2? OR FADB? OR FAD2? OR THIOESTERASE? OR DESATURASE?)
Intended traits: Herbicide tolerance traits	Glyphosate/roundup tolerance Glufosinate tolerance Dicamba tolerance	(TOLERAN? OR RESISTAN? OR PROTEC?)(5A)(GL!PHOSATE OR GL!FOSATE OR ROUNDUP? OR ROUND!UP? OR ROUND UP? OR DICAMBA OR ?METHOXYBENZOIC ACID

		OR GLUFOSINATE OR GLUPHOSINATE OR BASTA OR IGNITE OR LIBERTY OR PHOSPHINOTHRICIN OR ?BUTANOIC ACID)
Intended traits: Insect protection traits	Bt soy (soybean)/ <i>Bacillus thuringiensis</i> soybean providing Lepidopteran protection or protection against soybean looper (SBL) or Sunflower looper (SFL) or Black armyworm or corn earworm (CEW) or cotton bollworm (CBW) or soybean podworm or old world bollworm or african bollworm or american bollworm or cotton bollworm or corn earworm (CEW) or sunflower looper or soybean anxil borer or soybean budborer or <i>Anticarsia gemmatalis</i> or <i>Chrysodeixis includens</i> or <i>Pseudoplusia includens</i> or <i>Rachiplusia nu</i> or <i>Spodoptera frugipeda</i> or <i>Helicoverpa zea</i> or <i>Helicoverpa armigera</i> <i>Crocidosema aporema</i> or <i>Epinotia aporema</i>	BT SOY? OR BT SOY? OR BT!SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS!SOY? OR TOLERAN? OR RESISTAN? OR PROTEC?)(5A)(CATERPILLAR? OR LOOPER? OR BORER? OR BUDBORER? OR LEPIDOPTERA? OR EREBIDAE OR NOCTUIDAE OR TORTRICIDAE OR ANTICARSIA OR GEMMATALIS OR CHRYSODEIXIS OR PSEUDOPLUSIA OR INCLUDENS OR EPINOTIA OR CROCIDOSEMA OR APOREMA OR RACHIPLUSIA OR R. NU OR CHLORIDEA OR VIRESCENS OR VBC OR SBL OR SFL OR ARMYWORM? OR ARMY WORM? OR EARWORM? OR EAR WORM? OR BOLLWORM? OR BOLL WORM? OR PODWORM? OR POD WORM? OR SPODOPTERA OR COSMIOIDES OR FRUGIPERDA OR HELICOVERPA OR ZEA OR ARMIGERA OR FAW OR CEW OR CBW)
Intended traits: improved fatty acid profile	Expression of stearidonic acid (SDA; 18:4) Improved fatty acid profile (high monounsaturated fatty acids and low saturated and polyunsaturated fatty acids)	STEARIDONIC ACID OR SDA OR (HIGH? OR INCRE? OR CHANG?)(5A)(OLEIC OR MONOUNSATURATED OR MONO!UNSATURATED OR MONO UNSATURATED OR MUFA OR FAT?) LOW? OR DECRE? OR REDUC?)(5A)(SATURATED OR PALMITIC OR STEARIC OR LINOLEIC OR POLYUNSATURATED OR POLY!UNSATURATED OR POLY UNSATURATED OR PUFA
Crop name	Soybean, Soy, <i>Glycine max</i>	SOYBEAN? OR SOY? OR GLYCINE MAX OR G. MAX OR SOY BEAN
GMO general terms	Genetically modified organism (GMO, GM); Living modified organism (LMO); biotechnology-derived organism (biotech-derived); Genetic engineering (GE); transgenesis (transgene); genetic transformation; genetic manipulation; genetic improvement.	GMO? OR LMO? OR GM OR GE OR TRANSGEN? OR ((GENETIC? OR LIVING OR BIOTECH?)(5A)(MODIF? OR TRANSFORM? OR MANIPULAT? OR IMPROV? OR ENGINEER? OR DERIV?))

2. Controlled vocabulary, if applicable. Bayer GM Soybean products

Key elements	Search terms	Controlled terms offered by CABA (adapted for performing search in STN® database catalogue)
Event name	Not applicable	
Trade name	Not applicable	
Newly expressed proteins	Not applicable	
Intended traits: herbicide protection	Glyphosate/roundup tolerance Glufosinate tolerance Dicamba tolerance	WEED CONTROL+UF,NT/CT OR (GLYPHOSATE+UF,NT/CT OR GLUFOSINATE+UF,NT/CT OR DICAMBA+UF,NT/CT
Intended traits : Insect protection and herbicide tolerance traits	Bt soy (soybean)/ <i>Bacillus thuringiensis</i> soybean providing Lepidopteran protection or protection against soybean looper (SBL) or Sunflower looper (SFL) or Black armyworm or corn earworm (CEW) or cotton bollworm (CBW) or soybean podworm or old world bollworm or merica bollworm or merican bollworm or cotton bollworm or corn earworm (CEW) or sunflower looper or soybean anxil borer or soybean budborer or <i>Anticarsia gemmatalis</i> or <i>Chrysodeixis includens</i> or <i>Pseudoplusia</i> <i>includens</i> or <i>Rachiplusia nu</i> or <i>Spodoptera</i> <i>frugipeda</i> or <i>Helicoverpa zea</i> or <i>Helicoverpa</i> <i>armigera</i> <i>Crociosema aporema</i> or <i>Epinotia</i> <i>aporema</i>	INSECT CONTROL+UF,NT/CT) AND OR LEPIDOPTERA+UF,NT2/CT,ORGN OR EREBIDAE+UF/CT,ORGN OR NOCTUIDAE+UF/CT,ORGN OR TORTRICIDAE+UF/CT,ORGN OR ANTICARSIA+UF,NT1/CT,ORGN OR CHRYSODEIXIS+UF,NT1/CT,ORGN) (PSEUDOPUSIA+UF,NT1/CT,ORGN OR CHLORIDEA+UF,NT1/CT,ORGN OR CROCIOSEMA+UF,NT1/CT,ORGN OR EPINOTIA+UF,NT1/CT,ORGN OR RACIPLUSIA+UF,NT1/CT,ORGN)
Intended traits: Improved fatty acid profile	Improved fatty acid profile	SATURATED FATTY ACIDS+UF,NT/CT OR UNSATURATED FATTY ACIDS+UF,NT/CT
Crop name	Soybean, Soy, <i>Glycine max</i>	SOYABEANS+UF,NT/CT,ORGN

GMO general terms	Genetically modified organism (GMO, GM); Living modified organism (LMO); biotechnology-derived organism (biotech- derived); Genetic engineering (GE); transgenesis (transgene); genetic transformation; genetic manipulation; genetic improvement	GENETIC ENGINEERING+UF,NT/CT OR GENETIC TRANSFORMATION+UF,NT/CT OR GENETICALLY ENGINEERED FOODS+UF,NT/CT OR GENETICALLY ENGINEERED ORGANISMS+UF,NT/CT OR FOOD BIOTECHNOLOGY+UF,NT/CT
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Annex II. The search string used for Bayer GM [CROP NAME] products literature search in SciSearch and CABA databases using STN® database catalogue, and outcomes of the search (2023-2024)

Bayer GM Soybean products literature search - First quarter (May 2023 - October 2023)

This alert will only include literature published from 2023 onwards

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(FILE 'STNGUIDE' ENTERED AT 12:59:53 ON 09 OCT 2023)
DEL HIS Y
L1      QUE SPE=ON  ABB=ON  PLU=ON  (40!3!2 AND (SOY? OR GLYCINE MAX
      OR G. MAX)) OR MON 04032? OR MON04032? OR MON 04032? OR
      MON04032? OR MON EMPTY SET4EMPTY SET32? OR MONEMPTY SET4EMPTY
      SET32? OR MON!04032? OR MON!04032? OR MON!EMPTY SET4EMPTY
      SET32?
L2      QUE SPE=ON  ABB=ON  PLU=ON  MON 89788? OR MON89788? OR
      MON!89788? OR MON 87769? OR MON87769? OR MON!87769?
L3      QUE SPE=ON  ABB=ON  PLU=ON  MON 87701? OR MON87701? OR MON
      87701? OR MON87701? OR MON 877EMPTY SET1? OR MON877EMPTY SET1?
      OR MON!87701? OR MON!87701? OR MON!877EMPTY SET1?
L4      QUE SPE=ON  ABB=ON  PLU=ON  MON 87705? OR MON87705? OR MON
      87705? OR MON87705? OR MON 877EMPTY SET5? OR MON877EMPTY SET5?
      OR MON!87705? OR MON!87705? OR MON!877EMPTY SET5?
L5      QUE SPE=ON  ABB=ON  PLU=ON  MON 87708? OR MON87708? OR MON
      87708? OR MON87708? OR MON 877EMPTY SET8? OR MON877EMPTY SET8?
      OR MON!87708? OR MON!87708? OR MON!877EMPTY SET8?
L6      QUE SPE=ON  ABB=ON  PLU=ON  MON 87751? OR MON87751? OR
      MON!87751?
L7      QUE SPE=ON  ABB=ON  PLU=ON  ((A5547 127 OR A5547!127) AND
      (SOY? OR GLYCINE MAX OR G. MAX)) OR ACS!GM006? OR ACS!GMOO6?
      OR ACS!GMEMPTY SETEMPTY SET6? OR ACS GM006? OR ACS GMOO6? OR
      ACS GMEMPTY SETEMPTY SET6?
L8      QUE SPE=ON  ABB=ON  PLU=ON  ROUNDUPREADY? OR ROUND!UP!READY?
      OR ROUND!UP READY? OR ROUNDUP READY? OR ROUND UP READY? OR
      RR2Y? OR RRIIY? OR INTACTA OR RR2 PRO? OR RRII PRO? OR
      VISTIVE? OR VISTIVE? GOLD? OR XTEND? OR XTENDFLEX? OR XTEND
      FLEX?
L9      QUE SPE=ON  ABB=ON  PLU=ON  SOYBEAN? OR SOY? OR GLYCINE MAX OR
      G. MAX OR SOY BEAN
L10     QUE SPE=ON  ABB=ON  PLU=ON  CP4EPSPS? OR CP4 EPSPS? OR
      5(W) (ENOL PYRUVYL SHIKIMATE OR ENOLPYRUVYL SHIKIMATE OR ENOL
      PYRUVYLSHIKIMATE OR ENOL!PYRUVYL!SHIKIMATE OR ENOLPYRUVYLSHIKIM
      ATE) (W)3 PHOSPHATE(1W)SYNTHASE
L11     QUE SPE=ON  ABB=ON  PLU=ON  DICAMBA ?OXYGENASE OR DICAMBA
      ?DEMETHYLASE OR (DMO? AND (GENE OR ENZYME OR PROTEIN)) OR (PAT
      AND (GENE OR ENZYME OR PROTEIN)) OR (PHOSPHINOTHRICIN AND
      (ACETYL TRANSFERASE OR ACETYL!TRANSFERASE OR ACETYLTRANSFERASE
      ))
L12     QUE SPE=ON  ABB=ON  PLU=ON  CRY1AC OR CRYIAC OR CRY1 AC OR CRY
      1 AC OR CRY 1AC OR CRYI AC OR CRY I AC OR CRY IAC OR CRY1A105
      OR CRY1A 105 OR CRY 1A 105 OR CRY 1A105 OR CRYIA105 OR CRYIA
      105 OR CRY IA 105 OR CRY IA105 OR CRY1A.105
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L13 QUE SPE=ON ABB=ON PLU=ON CRY2AB? OR CRY2 AB? OR CRY 2 AB?
OR CRY 2AB? OR CRYIIAB? OR CRYII AB? OR CRY II AB? OR CRY
IIAB?

L14 QUE SPE=ON ABB=ON PLU=ON PJ!D6D OR PJD6D OR PJ D6D OR
NC!FAD3 OR NCFAD3 OR NC FAD3 OR NC!FAD 3 OR NCFAD 3 OR NC FAD
3 OR DESATURASE?

L15 QUE SPE=ON ABB=ON PLU=ON (RNA? OR DSRNA? OR SIRNA?) (5A) (FAT!
B? OR FAD!2? OR FAT B? OR FAD 2? OR FADB? OR FAD2? OR THIOESTER
ASE? OR DESATURASE?)

L16 QUE SPE=ON ABB=ON PLU=ON GMO? OR LMO? OR GM OR GE OR
TRANSGEN? OR ((GENETIC? OR LIVING OR BIOTECH?)) (5A) (MODIF? OR
TRANSFORM? OR MANIPULAT? OR IMPROV? OR ENGINEER? OR DERIV?))

L17 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (GL!PHOSATE OR GL!FOSATE OR ROUNDUP? OR ROUND!UP? OR ROUND
UP? OR DICAMBA OR ?METHOXYBENZOIC ACID OR GLUFOSINATE OR
GLUPHOSINATE OR BASTA OR IGNITE OR LIBERTY OR PHOSPHINOTHRICIN
OR ?BUTANOIC ACID)

L18 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (CATERPILLAR? OR LOOPER? OR BORER? OR BUDBORER? OR LEPIDOPTE
RA? OR EREBIDAE OR NOCTUIDAE OR TORTRICIDAE OR ANTICARSIA OR
GEMMATALIS OR CHRYSODEIXIS OR PSEUDOPLUSIA)

L19 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (INCLUDENS OR EPINOTIA OR CROCIDOSEMA OR APOREMA OR
RACHIPLUSIA OR R. NU OR CHLORIDEA OR VIRESCENS OR VBC OR SBL
OR SFL OR ARMYWORM? OR ARMY WORM? OR EARWORM? OR EAR WORM?)

L20 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (BOLLWORM? OR BOLL WORM? OR PODWORM? OR POD WORM? OR
SPODOPTERA OR COSMIOIDES OR FRUGIPERDA OR HELICOVERPA OR ZEA
OR ARMIGERA OR FAW OR CEW OR CBW)

L21 QUE SPE=ON ABB=ON PLU=ON (BT SOY? OR BT SOY? OR BT!SOY? OR
THURINGIENSIS SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS!SOY?)

L22 QUE SPE=ON ABB=ON PLU=ON STEARIDONIC ACID OR SDA OR (HIGH?
OR INCRE? OR CHANG?) (5A) (OLEIC OR MONOUNSATURATED OR MONO!UNSAT
URATED OR MONO UNSATURATED OR MUFA OR FAT?)

L23 QUE SPE=ON ABB=ON PLU=ON (LOW? OR DECRE? OR REDUC?) (5A) (SATU
RATED OR PALMITIC OR STEARIC OR LINOLEIC OR POLYUNSATURATED OR
POLY!UNSATURATED OR POLY UNSATURATED OR PUFA)

L24 QUE SPE=ON ABB=ON PLU=ON SOYABEANS+UF,NT/CT,ORGN

L25 QUE SPE=ON ABB=ON PLU=ON GENETIC ENGINEERING+UF,NT/CT OR
GENETIC TRANSFORMATION+UF,NT/CT OR GENETICALLY ENGINEERED
FOODS+UF,NT/CT OR GENETICALLY ENGINEERED ORGANISMS+UF,NT/CT OR
FOOD BIOTECHNOLOGY+UF,NT/CT

L26 QUE SPE=ON ABB=ON PLU=ON (WEED CONTROL+UF,NT/CT OR INSECT
CONTROL+UF,NT/CT)

L27 QUE SPE=ON ABB=ON PLU=ON (GLYPHOSATE+UF,NT/CT OR DICAMBA+UF,
NT/CT OR GLUFOSINATE+UF,NT/CT OR LEPIDOPTERA+UF/CT,ORGN OR
EREBIDAE+UF/CT,ORGN OR NOCTUIDAE+UF/CT,ORGN OR TORTRICIDAE+UF/C
T,ORGN OR ANTICARSIA+UF,NT1/CT,ORGN OR CHRYSODEIXIS+UF,NT1/CT,O
RGN)

L28 QUE SPE=ON ABB=ON PLU=ON (PSEUDOPLUSIA+UF,NT1/CT,ORGN OR
CHLORIDEA+UF,NT1/CT,ORGN OR CROCIDOSEMA+UF,NT1/CT,ORGN OR
EPINOTIA+UF,NT1/CT,ORGN OR RACHIPLUSIA+UF,NT1/CT,ORGN)

L29 QUE SPE=ON ABB=ON PLU=ON SATURATED FATTY ACIDS+UF,NT/CT OR
UNSATURATED FATTY ACIDS+UF,NT/CT

FILE 'SCISEARCH' ENTERED AT 13:00:17 ON 09 OCT 2023

L30 3 SEA SPE=ON ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5 OR L6
OR L7) AND ED>=20230530 AND ED<=20231004 AND PY>=2023

L31 16 SEA SPE=ON ABB=ON PLU=ON L8 AND ED>=20230530 AND ED<=2023100

		4 AND PY>=2023		
L32	2997	SEA SPE=ON ABB=ON PLU=ON	L9 AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L33	2	SEA SPE=ON ABB=ON PLU=ON	L31 AND L32	
L34	76	SEA SPE=ON ABB=ON PLU=ON	(L10 OR L11) AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L35	27	SEA SPE=ON ABB=ON PLU=ON	(L12 OR L13) AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L36	207	SEA SPE=ON ABB=ON PLU=ON	L14 AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L37	3	SEA SPE=ON ABB=ON PLU=ON	L15 AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L38	312	SEA SPE=ON ABB=ON PLU=ON	L34 OR L35 OR L36 OR L37	
L39	16425	SEA SPE=ON ABB=ON PLU=ON	L16 AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L40	52	SEA SPE=ON ABB=ON PLU=ON	L38 AND (L39 OR L32)	
L41	59	SEA SPE=ON ABB=ON PLU=ON	L17 AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L42	94	SEA SPE=ON ABB=ON PLU=ON	(L18 OR L19 OR L20) AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L43	1	SEA SPE=ON ABB=ON PLU=ON	L21 AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L44	6027	SEA SPE=ON ABB=ON PLU=ON	(L22 OR L23) AND ED>=20230530 AND ED<=20231004 AND PY>=2023	
L45	6179	SEA SPE=ON ABB=ON PLU=ON	L41 OR L42 OR L44	
L46	9	SEA SPE=ON ABB=ON PLU=ON	L45 AND L39 AND L32	
L47	1	SEA SPE=ON ABB=ON PLU=ON	L43 AND L39	
L48	10	SEA SPE=ON ABB=ON PLU=ON	L46 OR L47	
L49	66	SEA SPE=ON ABB=ON PLU=ON	L30 OR L33 OR L40 OR L48	

FILE 'CABA' ENTERED AT 13:00:39 ON 09 OCT 2023

L50	0	SEA SPE=ON ABB=ON PLU=ON	(L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7) AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L51	5	SEA SPE=ON ABB=ON PLU=ON	L8 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L52	2713	SEA SPE=ON ABB=ON PLU=ON	L9 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L53	1923	SEA SPE=ON ABB=ON PLU=ON	L24 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L54	2713	SEA SPE=ON ABB=ON PLU=ON	L52 OR L53
L55	1	SEA SPE=ON ABB=ON PLU=ON	L51 AND L54
L56	37	SEA SPE=ON ABB=ON PLU=ON	(L10 OR L11) AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L57	33	SEA SPE=ON ABB=ON PLU=ON	(L12 OR L13) AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L58	116	SEA SPE=ON ABB=ON PLU=ON	L14 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L59	5	SEA SPE=ON ABB=ON PLU=ON	L15 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L60	189	SEA SPE=ON ABB=ON PLU=ON	L56 OR L57 OR L58 OR L59
L61	4385	SEA SPE=ON ABB=ON PLU=ON	L16 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L62	2440	SEA SPE=ON ABB=ON PLU=ON	L25 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L63	4666	SEA SPE=ON ABB=ON PLU=ON	L61 OR L62
L64	77	SEA SPE=ON ABB=ON PLU=ON	L60 AND (L54 OR L63)
L65	61	SEA SPE=ON ABB=ON PLU=ON	L17 AND ED>=20230530 AND ED<=20231004 AND PY>=2023
L66	107	SEA SPE=ON ABB=ON PLU=ON	(L18 OR L19 OR L20) AND ED>=20230530

0 AND ED<=20231004 AND PY>=2023

L67 2 SEA SPE=ON ABB=ON PLU=ON L21 AND ED>=20230530 AND ED<=20231004 AND PY>=2023

L68 3130 SEA SPE=ON ABB=ON PLU=ON (L22 OR L23) AND ED>=20230530 AND ED<=20231004 AND PY>=2023

L69 1050 SEA SPE=ON ABB=ON PLU=ON L26 AND ED>=20230530 AND ED<=20231004 AND PY>=2023

L70 423 SEA SPE=ON ABB=ON PLU=ON (L27 OR L28) AND ED>=20230530 AND ED<=20231004 AND PY>=2023

L71 58 SEA SPE=ON ABB=ON PLU=ON L69 AND L70

L72 2116 SEA SPE=ON ABB=ON PLU=ON L29 AND ED>=20230530 AND ED<=20231004 AND PY>=2023

L73 2174 SEA SPE=ON ABB=ON PLU=ON L72 OR L71

L74 4721 SEA SPE=ON ABB=ON PLU=ON L65 OR L66 OR L68 OR L73

L75 10 SEA SPE=ON ABB=ON PLU=ON L70 AND L63 AND L54

L76 2 SEA SPE=ON ABB=ON PLU=ON L67 AND L63

L77 10 SEA SPE=ON ABB=ON PLU=ON L75 OR L76

L78 85 SEA SPE=ON ABB=ON PLU=ON L50 OR L55 OR L64 OR L77

FILE 'STNGUIDE' ENTERED AT 13:01:39 ON 09 OCT 2023

FILE 'CABA, SCISEARCH' ENTERED AT 13:01:40 ON 09 OCT 2023

L79 138 DUP REM L78 L49 (13 DUPLICATES REMOVED)

ANSWERS '1-85' FROM FILE CABA

ANSWERS '86-138' FROM FILE SCISEARCH

D L79 1-138 ALL PY

FILE 'CABA' ENTERED AT 14:02:04 ON 09 OCT 2023

REDISTRIBUTE 25 85

FILE 'SCISEARCH' ENTERED AT 14:02:06 ON 09 OCT 2023

REDISTRIBUTE 25 53

FILE 'CABA' ENTERED AT 14:02:07 ON 09 OCT 2023

ARCHIVE 25 85

FILE 'SCISEARCH' ENTERED AT 14:02:09 ON 09 OCT 2023

ARCHIVE 25 53

FILE 'STNGUIDE' ENTERED AT 14:02:10 ON 09 OCT 2023

FILE SCISEARCH

FILE COVERS 1974 TO 2 Oct 2023 (20231002/ED)

To bring you the most up-to-date SciSearch information,
SciSearch SDIs now run on Mondays.

FILE CABA

FILE LAST UPDATED: 4 OCT 2023 <20231004/UP>

FILE COVERS 1973 TO DATE

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 28, 2023 (20230928/UP).

Bayer GM Soybean products literature search - Second quarter (October 2023 - February 2024)

This alert will only include literature published from 2023 onwards

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(FILE 'STNGUIDE' ENTERED AT 14:19:44 ON 08 FEB 2024)

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D SEL

L1 QUE SPE=ON ABB=ON PLU=ON (40!3!2 AND (SOY? OR GLYCINE MAX OR G. MAX)) OR MON 04032? OR MON04032? OR MON 04032? OR MON04032? OR MON EMPTY SET4EMPTY SET32? OR MONEMPTY SET4EMPTY SET32? OR MON!04032? OR MON!04032? OR MON!EMPTY SET4EMPTY SET32?

L2 QUE SPE=ON ABB=ON PLU=ON MON 89788? OR MON89788? OR MON!89788? OR MON 87769? OR MON87769? OR MON!87769?

L3 QUE SPE=ON ABB=ON PLU=ON MON 87701? OR MON87701? OR MON 87701? OR MON87701? OR MON 877EMPTY SET1? OR MON877EMPTY SET1? OR MON!87701? OR MON!87701? OR MON!877EMPTY SET1?

L4 QUE SPE=ON ABB=ON PLU=ON MON 87705? OR MON87705? OR MON 87705? OR MON87705? OR MON 877EMPTY SET5? OR MON877EMPTY SET5? OR MON!87705? OR MON!87705? OR MON!877EMPTY SET5?

L5 QUE SPE=ON ABB=ON PLU=ON MON 87708? OR MON87708? OR MON 87708? OR MON87708? OR MON 877EMPTY SET8? OR MON877EMPTY SET8? OR MON!87708? OR MON!87708? OR MON!877EMPTY SET8?

L6 QUE SPE=ON ABB=ON PLU=ON MON 87751? OR MON87751? OR MON!87751?

L7 QUE SPE=ON ABB=ON PLU=ON ((A5547 127 OR A5547!127) AND (SOY? OR GLYCINE MAX OR G. MAX)) OR ACS!GM006? OR ACS!GMOO6? OR ACS!GMEMPTY SETEMPTY SET6? OR ACS GM006? OR ACS GMOO6? OR ACS GGMEMPTY SETEMPTY SET6?

L8 QUE SPE=ON ABB=ON PLU=ON ROUNDUPREADY? OR ROUND!UP!READY? OR ROUND!UP READY? OR ROUNDUP READY? OR ROUND UP READY? OR RR2Y? OR RRIIY? OR INTACTA OR RR2 PRO? OR RRII PRO? OR VISTIVE? OR VISTIVE? GOLD? OR XTEND? OR XTENDFLEX? OR XTEND FLEX?

L9 QUE SPE=ON ABB=ON PLU=ON SOYBEAN? OR SOY? OR GLYCINE MAX OR G. MAX OR SOY BEAN

L10 QUE SPE=ON ABB=ON PLU=ON CP4EPSPS? OR CP4 EPSPS? OR 5(W) (ENOL PYRUVYL SHIKIMATE OR ENOLPYRUVYL SHIKIMATE OR ENOL PYRUVYLSHIKIMATE OR ENOL!PYRUVYL!SHIKIMATE OR ENOLPYRUVYLSHIKIMATE) (W) 3 PHOSPHATE(1W) SYNTHASE

L11 QUE SPE=ON ABB=ON PLU=ON DICAMBA ?OXYGENASE OR DICAMBA ?DEMETHYLASE OR (DMO? AND (GENE OR ENZYME OR PROTEIN)) OR (PAT AND (GENE OR ENZYME OR PROTEIN)) OR (PHOSPHINOTHRICIN AND (ACETYL TRANSFERASE OR ACETYL!TRANSFERASE OR ACETYLTRANSFERASE))

L12 QUE SPE=ON ABB=ON PLU=ON CRY1AC OR CRYIAC OR CRY1 AC OR CRY 1 AC OR CRY 1AC OR CRYI AC OR CRY I AC OR CRY IAC OR CRY1A105 OR CRY1A 105 OR CRY 1A 105 OR CRY 1A105 OR CRYIA105 OR CRYIA 105 OR CRY IA 105 OR CRY IA105 OR CRY1A.105

L13 QUE SPE=ON ABB=ON PLU=ON CRY2AB? OR CRY2 AB? OR CRY 2 AB? OR CRY 2AB? OR CRYIIAB? OR CRYII AB? OR CRY II AB? OR CRY IIAB?

L14 QUE SPE=ON ABB=ON PLU=ON PJ!D6D OR PJD6D OR PJ D6D OR NC!FAD3 OR NCFAD3 OR NC FAD3 OR NC!FAD 3 OR NCFAD 3 OR NC FAD 3 OR DESATURASE?

L15 QUE SPE=ON ABB=ON PLU=ON (RNA? OR DSRNA? OR SIRNA?) (5A) (FAT! B? OR FAD!2? OR FAT B? OR FAD 2? OR FADB? OR FAD2? OR THIOESTER ASE? OR DESATURASE?)

L16 QUE SPE=ON ABB=ON PLU=ON GMO? OR LMO? OR GM OR GE OR TRANSGEN? OR ((GENETIC? OR LIVING OR BIOTECH?) (5A) (MODIF? OR TRANSFORM? OR MANIPULAT? OR IMPROV? OR ENGINEER? OR DERIV?))

L17 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (GL!PHOSATE OR GL!FOSATE OR ROUNDUP? OR ROUND!UP? OR ROUND UP? OR DICAMBA OR ?METHOXYBENZOIC ACID OR GLUFOSINATE OR GLUPHOSINATE OR BASTA OR IGNITE OR LIBERTY OR PHOSPHINOTHRICIN OR ?BUTANOIC ACID)

L18 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (CATERPILLAR? OR LOOPER? OR BORER? OR BUDBORER? OR LEPIDOPTERA? OR EREBIDAE OR NOCTUIDAE OR TORTRICIDAE OR ANTICARSIA OR GEMMATALIS OR CHRYSODEIXIS OR PSEUDOPLUSIA)

L19 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (INCLUDENS OR EPINOTIA OR CROCIDOSEMA OR APOREMA OR RACHIPLUSIA OR R. NU OR CHLORIDEA OR VIRESCENS OR VBC OR SBL OR SFL OR ARMYWORM? OR ARMY WORM? OR EARWORM? OR EAR WORM?)

L20 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (BOLLWORM? OR BOLL WORM? OR PODWORM? OR POD WORM? OR SPODOPTERA OR COSMIOIDES OR FRUGIPERDA OR HELICOVERPA OR ZEA OR ARMIGERA OR FAW OR CEW OR CBW)

L21 QUE SPE=ON ABB=ON PLU=ON (BT SOY? OR BT SOY? OR BT!SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS!SOY?)

L22 QUE SPE=ON ABB=ON PLU=ON STEARIDONIC ACID OR SDA OR (HIGH? OR INCRE? OR CHANG?) (5A) (OLEIC OR MONOUNSATURATED OR MONO!UNSATURATED OR MONO UNSATURATED OR MUFA OR FAT?)

L23 QUE SPE=ON ABB=ON PLU=ON (LOW? OR DECRE? OR REDUC?) (5A) (SATURATED OR PALMITIC OR STEARIC OR LINOLEIC OR POLYUNSATURATED OR POLY!UNSATURATED OR POLY UNSATURATED OR PUFA)

L24 QUE SPE=ON ABB=ON PLU=ON SOYABEANS+UF,NT/CT,ORGN

L25 QUE SPE=ON ABB=ON PLU=ON GENETIC ENGINEERING+UF,NT/CT OR GENETIC TRANSFORMATION+UF,NT/CT OR GENETICALLY ENGINEERED FOODS+UF,NT/CT OR GENETICALLY ENGINEERED ORGANISMS+UF,NT/CT OR FOOD BIOTECHNOLOGY+UF,NT/CT

L26 QUE SPE=ON ABB=ON PLU=ON (WEED CONTROL+UF,NT/CT OR INSECT CONTROL+UF,NT/CT)

L27 QUE SPE=ON ABB=ON PLU=ON (GLYPHOSATE+UF,NT/CT OR DICAMBA+UF,NT/CT OR GLUFOSINATE+UF,NT/CT OR LEPIDOPTERA+UF/CT,ORGN OR EREBIDAE+UF/CT,ORGN OR NOCTUIDAE+UF/CT,ORGN OR TORTRICIDAE+UF/CT,ORGN OR ANTICARSIA+UF,NT1/CT,ORGN OR CHRYSODEIXIS+UF,NT1/CT,ORGN)

L28 QUE SPE=ON ABB=ON PLU=ON (PSEUDOPLUSIA+UF,NT1/CT,ORGN OR CHLORIDEA+UF,NT1/CT,ORGN OR CROCIDOSEMA+UF,NT1/CT,ORGN OR EPINOTIA+UF,NT1/CT,ORGN OR RACHIPLUSIA+UF,NT1/CT,ORGN)

L29 QUE SPE=ON ABB=ON PLU=ON SATURATED FATTY ACIDS+UF,NT/CT OR UNSATURATED FATTY ACIDS+UF,NT/CT

FILE 'SCISEARCH' ENTERED AT 14:20:04 ON 08 FEB 2024

L30 1 SEA SPE=ON ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7) AND ED>=20231002 AND ED<=20240205 AND PY>=2023

L31 12 SEA SPE=ON ABB=ON PLU=ON L8 AND ED>=20231002 AND ED<=20240205 AND PY>=2023

L32 2977 SEA SPE=ON ABB=ON PLU=ON L9 AND ED>=20231002 AND ED<=20240205 AND PY>=2023

L33 4 SEA SPE=ON ABB=ON PLU=ON L31 AND L32

L34 91 SEA SPE=ON ABB=ON PLU=ON (L10 OR L11) AND ED>=20231002 AND ED<=20240205 AND PY>=2023

L35	35	SEA SPE=ON	ABB=ON	PLU=ON	(L12 OR L13) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L36	217	SEA SPE=ON	ABB=ON	PLU=ON	L14 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L37	3	SEA SPE=ON	ABB=ON	PLU=ON	L15 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L38	342	SEA SPE=ON	ABB=ON	PLU=ON	L34 OR L35 OR L36 OR L37
L39	10317	SEA SPE=ON	ABB=ON	PLU=ON	L16 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L40	64	SEA SPE=ON	ABB=ON	PLU=ON	L38 AND (L39 OR L32)
L41	61	SEA SPE=ON	ABB=ON	PLU=ON	L17 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L42	79	SEA SPE=ON	ABB=ON	PLU=ON	(L18 OR L19 OR L20) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L43	2	SEA SPE=ON	ABB=ON	PLU=ON	L21 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L44	6232	SEA SPE=ON	ABB=ON	PLU=ON	(L22 OR L23) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L45	6367	SEA SPE=ON	ABB=ON	PLU=ON	L41 OR L42 OR L44
L46	17	SEA SPE=ON	ABB=ON	PLU=ON	L45 AND L39 AND L32
L47	0	SEA SPE=ON	ABB=ON	PLU=ON	L43 AND L39
L48	17	SEA SPE=ON	ABB=ON	PLU=ON	L46 OR L47
L49	83	SEA SPE=ON	ABB=ON	PLU=ON	L30 OR L33 OR L40 OR L48

FILE 'CABA' ENTERED AT 14:20:25 ON 08 FEB 2024

L50	1	SEA SPE=ON	ABB=ON	PLU=ON	(L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L51	9	SEA SPE=ON	ABB=ON	PLU=ON	L8 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L52	2729	SEA SPE=ON	ABB=ON	PLU=ON	L9 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L53	1960	SEA SPE=ON	ABB=ON	PLU=ON	L24 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L54	2729	SEA SPE=ON	ABB=ON	PLU=ON	L52 OR L53
L55	6	SEA SPE=ON	ABB=ON	PLU=ON	L51 AND L54
L56	33	SEA SPE=ON	ABB=ON	PLU=ON	(L10 OR L11) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L57	20	SEA SPE=ON	ABB=ON	PLU=ON	(L12 OR L13) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L58	100	SEA SPE=ON	ABB=ON	PLU=ON	L14 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L59	4	SEA SPE=ON	ABB=ON	PLU=ON	L15 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L60	154	SEA SPE=ON	ABB=ON	PLU=ON	L56 OR L57 OR L58 OR L59
L61	4049	SEA SPE=ON	ABB=ON	PLU=ON	L16 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L62	2058	SEA SPE=ON	ABB=ON	PLU=ON	L25 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L63	4332	SEA SPE=ON	ABB=ON	PLU=ON	L61 OR L62
L64	44	SEA SPE=ON	ABB=ON	PLU=ON	L60 AND (L54 OR L63)
L65	61	SEA SPE=ON	ABB=ON	PLU=ON	L17 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L66	116	SEA SPE=ON	ABB=ON	PLU=ON	(L18 OR L19 OR L20) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L67	2	SEA SPE=ON	ABB=ON	PLU=ON	L21 AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L68	3238	SEA SPE=ON	ABB=ON	PLU=ON	(L22 OR L23) AND ED>=20231002 AND ED<=20240205 AND PY>=2023
L69	1053	SEA SPE=ON	ABB=ON	PLU=ON	L26 AND ED>=20231002 AND ED<=20240205 AND PY>=2023

05 AND PY>=2023

L70 429 SEA SPE=ON ABB=ON PLU=ON (L27 OR L28) AND ED>=20231002 AND
ED<=20240205 AND PY>=2023

L71 81 SEA SPE=ON ABB=ON PLU=ON L69 AND L70

L72 2229 SEA SPE=ON ABB=ON PLU=ON L29 AND ED>=20231002 AND ED<=202402
05 AND PY>=2023

L73 2309 SEA SPE=ON ABB=ON PLU=ON L72 OR L71

L74 4897 SEA SPE=ON ABB=ON PLU=ON L65 OR L66 OR L68 OR L73

L75 6 SEA SPE=ON ABB=ON PLU=ON L70 AND L63 AND L54

L76 1 SEA SPE=ON ABB=ON PLU=ON L67 AND L63

L77 7 SEA SPE=ON ABB=ON PLU=ON L75 OR L76

L78 55 SEA SPE=ON ABB=ON PLU=ON L50 OR L55 OR L64 OR L77

FILE 'STNGUIDE' ENTERED AT 14:20:46 ON 08 FEB 2024

FILE 'CABA, SCISEARCH' ENTERED AT 14:20:47 ON 08 FEB 2024

L79 128 DUP REM L78 L49 (10 DUPLICATES REMOVED)
ANSWERS '1-55' FROM FILE CABA
ANSWERS '56-128' FROM FILE SCISEARCH
D L79 1-128 ALL PY

FILE 'CABA' ENTERED AT 15:21:19 ON 08 FEB 2024
REDISTRIBUTE 25 55

FILE 'SCISEARCH' ENTERED AT 15:21:21 ON 08 FEB 2024
REDISTRIBUTE 25 73

FILE 'CABA' ENTERED AT 15:21:22 ON 08 FEB 2024
ARCHIVE 25 55

FILE 'SCISEARCH' ENTERED AT 15:21:23 ON 08 FEB 2024
ARCHIVE 25 73

FILE 'STNGUIDE' ENTERED AT 15:21:24 ON 08 FEB 2024

FILE SCISEARCH

FILE COVERS 1974 TO 5 Feb 2024 (20240205/ED)

To bring you the most up-to-date SciSearch information,
SciSearch SDIs now run on Mondays.

FILE CABA

FILE LAST UPDATED: 5 Feb 2024 (20240205/UP)
FILE COVERS 1973 TO PRESENT

Bayer GM Soybean products literature search - Third quarter (February 2024 - June 2024)

This alert will only include literature published from 2024 onwards

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(FILE 'STNGUIDE' ENTERED AT 09:35:52 ON 04 JUN 2024)

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      DEL HIS Y
      D SEL
L1    QUE SPE=ON  ABB=ON  PLU=ON  (40!3!2 AND (SOY? OR GLYCINE MAX
      OR G. MAX)) OR MON 04032? OR MON04032? OR MON 04032? OR
      MON04032? OR MON EMPTY SET4EMPTY SET32? OR MONEMPTY SET4EMPTY
      SET32? OR MON!04032? OR MON!04032? OR MON!EMPTY SET4EMPTY
      SET32?
L2    QUE SPE=ON  ABB=ON  PLU=ON  MON 89788? OR MON89788? OR
      MON!89788? OR MON 87769? OR MON87769? OR MON!87769?
L3    QUE SPE=ON  ABB=ON  PLU=ON  MON 87701? OR MON87701? OR MON
      87701? OR MON87701? OR MON 877EMPTY SET1? OR MON877EMPTY SET1?
      OR MON!87701? OR MON!87701? OR MON!877EMPTY SET1?
L4    QUE SPE=ON  ABB=ON  PLU=ON  MON 87705? OR MON87705? OR MON
      87705? OR MON87705? OR MON 877EMPTY SET5? OR MON877EMPTY SET5?
      OR MON!87705? OR MON!87705? OR MON!877EMPTY SET5?
L5    QUE SPE=ON  ABB=ON  PLU=ON  MON 87708? OR MON87708? OR MON
      87708? OR MON87708? OR MON 877EMPTY SET8? OR MON877EMPTY SET8?
      OR MON!87708? OR MON!87708? OR MON!877EMPTY SET8?
L6    QUE SPE=ON  ABB=ON  PLU=ON  MON 87751? OR MON87751? OR
      MON!87751?
L7    QUE SPE=ON  ABB=ON  PLU=ON  ((A5547 127 OR A5547!127) AND
      (SOY? OR GLYCINE MAX OR G. MAX)) OR ACS!GM006? OR ACS!GMOO6?
      OR ACS!GMEMPTY SETEMPTY SET6? OR ACS GM006? OR ACS GMOO6? OR
      ACS GMEMPTY SETEMPTY SET6?
L8    QUE SPE=ON  ABB=ON  PLU=ON  ROUNDUPREADY? OR ROUND!UP!READY?
      OR ROUND!UP READY? OR ROUNDUP READY? OR ROUND UP READY? OR
      RR2Y? OR RRIIY? OR INTACTA OR RR2 PRO? OR RRII PRO? OR
      VISTIVE? OR VISTIVE? GOLD? OR XTEND? OR XTENDFLEX? OR XTEND
      FLEX?
L9    QUE SPE=ON  ABB=ON  PLU=ON  SOYBEAN? OR SOY? OR GLYCINE MAX OR
      G. MAX OR SOY BEAN
L10   QUE SPE=ON  ABB=ON  PLU=ON  CP4EPSPS? OR CP4 EPSPS? OR
      5(W) (ENOL PYRUVYL SHIKIMATE OR ENOLPYRUVYL SHIKIMATE OR ENOL
      PYRUVYLSHIKIMATE OR ENOL!PYRUVYL!SHIKIMATE OR ENOLPYRUVYLSHIKI
      MATE) (W) 3 PHOSPHATE(1W) SYNTHASE
L11   QUE SPE=ON  ABB=ON  PLU=ON  DICAMBA ?OXYGENASE OR DICAMBA
      ?DEMETHYLASE OR (DMO? AND (GENE OR ENZYME OR PROTEIN)) OR (PAT
      AND (GENE OR ENZYME OR PROTEIN)) OR (PHOSPHINOTHRICIN AND
      (ACETYL TRANSFERASE OR ACETYL!TRANSFERASE OR ACETYLTRANSFERASE
      ))
L12   QUE SPE=ON  ABB=ON  PLU=ON  CRY1AC OR CRYIAC OR CRY1 AC OR CRY
      1 AC OR CRY 1AC OR CRYI AC OR CRY I AC OR CRY IAC OR CRY1A105
      OR CRY1A 105 OR CRY 1A 105 OR CRY 1A105 OR CRYIA105 OR CRYIA
      105 OR CRY IA 105 OR CRY IA105 OR CRY1A.105
L13   QUE SPE=ON  ABB=ON  PLU=ON  CRY2AB? OR CRY2 AB? OR CRY 2 AB?
      OR CRY 2AB? OR CRYIIAB? OR CRYII AB? OR CRY II AB? OR CRY
      IIAB?
L14   QUE SPE=ON  ABB=ON  PLU=ON  PJ!D6D OR PJD6D OR PJ D6D OR
      NC!FAD3 OR NCFAD3 OR NC FAD3 OR NC!FAD 3 OR NCFAD 3 OR NC FAD
      3 OR DESATURASE?
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L15 QUE SPE=ON ABB=ON PLU=ON (RNA? OR DSRNA? OR SIRNA?) (5A) (FAT! B? OR FAD!2? OR FAT B? OR FAD 2? OR FADB? OR FAD2? OR THIOESTER ASE? OR DESATURASE?)

L16 QUE SPE=ON ABB=ON PLU=ON GMO? OR LMO? OR GM OR GE OR TRANSGEN? OR ((GENETIC? OR LIVING OR BIOTECH?) (5A) (MODIF? OR TRANSFORM? OR MANIPULAT? OR IMPROV? OR ENGINEER? OR DERIV?))

L17 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (GL!PHOSATE OR GL!FOSATE OR ROUNDUP? OR ROUND!UP? OR ROUND UP? OR DICAMBA OR ?METHOXYBENZOIC ACID OR GLUFOSINATE OR GLUPHOSINATE OR BASTA OR IGNITE OR LIBERTY OR PHOSPHINOTHRICIN OR ?BUTANOIC ACID)

L18 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (CATERPILLAR? OR LOOPER? OR BORER? OR BUDBORER? OR LEPIDOPTERA? OR EREBIDAE OR NOCTUIDAE OR TORTRICIDAE OR ANTICARSIA OR GEMMATALIS OR CHRYSODEIXIS OR PSEUDOPLUSIA)

L19 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (INCLUDENS OR EPINOTIA OR CROCIDOSEMA OR APOREMA OR RACHIPLUSIA OR R. NU OR CHLORIDEA OR VIRESCENS OR VBC OR SBL OR SFL OR ARMYWORM? OR ARMY WORM? OR EARWORM? OR EAR WORM?)

L20 QUE SPE=ON ABB=ON PLU=ON (TOLERAN? OR RESISTAN? OR PROTEC?) (5A) (BOLLWORM? OR BOLL WORM? OR PODWORM? OR POD WORM? OR SPODOPTERA OR COSMIOIDES OR FRUGIPERDA OR HELICOVERPA OR ZEA OR ARMIGERA OR FAW OR CEW OR CBW)

L21 QUE SPE=ON ABB=ON PLU=ON (BT SOY? OR BT SOY? OR BT!SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS SOY? OR THURINGIENSIS!SOY?)

L22 QUE SPE=ON ABB=ON PLU=ON STEARIDONIC ACID OR SDA OR (HIGH? OR INCRE? OR CHANG?) (5A) (OLEIC OR MONOUNSATURATED OR MONO!UNSATURATED OR MONO UNSATURATED OR MUFA OR FAT?)

L23 QUE SPE=ON ABB=ON PLU=ON (LOW? OR DECRE? OR REDUC?) (5A) (SATURATED OR PALMITIC OR STEARIC OR LINOLEIC OR POLYUNSATURATED OR POLY!UNSATURATED OR POLY UNSATURATED OR PUFA)

L24 QUE SPE=ON ABB=ON PLU=ON SOYABEANS+UF,NT/CT,ORGN

L25 QUE SPE=ON ABB=ON PLU=ON GENETIC ENGINEERING+UF,NT/CT OR GENETIC TRANSFORMATION+UF,NT/CT OR GENETICALLY ENGINEERED FOODS+UF,NT/CT OR GENETICALLY ENGINEERED ORGANISMS+UF,NT/CT OR FOOD BIOTECHNOLOGY+UF,NT/CT

L26 QUE SPE=ON ABB=ON PLU=ON (WEED CONTROL+UF,NT/CT OR INSECT CONTROL+UF,NT/CT)

L27 QUE SPE=ON ABB=ON PLU=ON (GLYPHOSATE+UF,NT/CT OR DICAMBA+UF,NT/CT OR GLUFOSINATE+UF,NT/CT OR LEPIDOPTERA+UF/CT,ORGN OR EREBIDAE+UF/CT,ORGN OR NOCTUIDAE+UF/CT,ORGN OR TORTRICIDAE+UF/CT,ORGN OR ANTICARSIA+UF,NT1/CT,ORGN OR CHRYSODEIXIS+UF,NT1/CT,ORGN)

L28 QUE SPE=ON ABB=ON PLU=ON (PSEUDOPLUSIA+UF,NT1/CT,ORGN OR CHLORIDEA+UF,NT1/CT,ORGN OR CROCIDOSEMA+UF,NT1/CT,ORGN OR EPINOTIA+UF,NT1/CT,ORGN OR RACHIPLUSIA+UF,NT1/CT,ORGN)

L29 QUE SPE=ON ABB=ON PLU=ON SATURATED FATTY ACIDS+UF,NT/CT OR UNSATURATED FATTY ACIDS+UF,NT/CT

FILE 'SCISEARCH' ENTERED AT 09:36:22 ON 04 JUN 2024

L30 0 SEA SPE=ON ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7) AND ED>=20240205 AND ED<=20240603 AND PY>=2024

L31 12 SEA SPE=ON ABB=ON PLU=ON L8 AND ED>=20240205 AND ED<=20240603 AND PY>=2024

L32 2839 SEA SPE=ON ABB=ON PLU=ON L9 AND ED>=20240205 AND ED<=20240603 AND PY>=2024

L33 2 SEA SPE=ON ABB=ON PLU=ON L31 AND L32

L34 82 SEA SPE=ON ABB=ON PLU=ON (L10 OR L11) AND ED>=20240205 AND ED<=20240603 AND PY>=2024

L35	30	SEA SPE=ON	ABB=ON	PLU=ON	(L12 OR L13) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L36	194	SEA SPE=ON	ABB=ON	PLU=ON	L14 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L37	5	SEA SPE=ON	ABB=ON	PLU=ON	L15 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L38	307	SEA SPE=ON	ABB=ON	PLU=ON	L34 OR L35 OR L36 OR L37
L39	9304	SEA SPE=ON	ABB=ON	PLU=ON	L16 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L40	60	SEA SPE=ON	ABB=ON	PLU=ON	L38 AND (L39 OR L32)
L41	60	SEA SPE=ON	ABB=ON	PLU=ON	L17 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L42	74	SEA SPE=ON	ABB=ON	PLU=ON	(L18 OR L19 OR L20) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L43	3	SEA SPE=ON	ABB=ON	PLU=ON	L21 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L44	5918	SEA SPE=ON	ABB=ON	PLU=ON	(L22 OR L23) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L45	6049	SEA SPE=ON	ABB=ON	PLU=ON	L41 OR L42 OR L44
L46	7	SEA SPE=ON	ABB=ON	PLU=ON	L45 AND L39 AND L32
L47	1	SEA SPE=ON	ABB=ON	PLU=ON	L43 AND L39
L48	8	SEA SPE=ON	ABB=ON	PLU=ON	L46 OR L47
L49	69	SEA SPE=ON	ABB=ON	PLU=ON	L30 OR L33 OR L40 OR L48

FILE 'CABA' ENTERED AT 09:36:42 ON 04 JUN 2024

L50	0	SEA SPE=ON	ABB=ON	PLU=ON	(L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L51	6	SEA SPE=ON	ABB=ON	PLU=ON	L8 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L52	1622	SEA SPE=ON	ABB=ON	PLU=ON	L9 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L53	1129	SEA SPE=ON	ABB=ON	PLU=ON	L24 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L54	1622	SEA SPE=ON	ABB=ON	PLU=ON	L52 OR L53
L55	3	SEA SPE=ON	ABB=ON	PLU=ON	L51 AND L54
L56	30	SEA SPE=ON	ABB=ON	PLU=ON	(L10 OR L11) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L57	12	SEA SPE=ON	ABB=ON	PLU=ON	(L12 OR L13) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L58	71	SEA SPE=ON	ABB=ON	PLU=ON	L14 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L59	6	SEA SPE=ON	ABB=ON	PLU=ON	L15 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L60	117	SEA SPE=ON	ABB=ON	PLU=ON	L56 OR L57 OR L58 OR L59
L61	2560	SEA SPE=ON	ABB=ON	PLU=ON	L16 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L62	1588	SEA SPE=ON	ABB=ON	PLU=ON	L25 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L63	2735	SEA SPE=ON	ABB=ON	PLU=ON	L61 OR L62
L64	30	SEA SPE=ON	ABB=ON	PLU=ON	L60 AND (L54 OR L63)
L65	38	SEA SPE=ON	ABB=ON	PLU=ON	L17 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L66	85	SEA SPE=ON	ABB=ON	PLU=ON	(L18 OR L19 OR L20) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L67	1	SEA SPE=ON	ABB=ON	PLU=ON	L21 AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L68	1756	SEA SPE=ON	ABB=ON	PLU=ON	(L22 OR L23) AND ED>=20240205 AND ED<=20240603 AND PY>=2024
L69	736	SEA SPE=ON	ABB=ON	PLU=ON	L26 AND ED>=20240205 AND ED<=20240603 AND PY>=2024

03 AND PY>=2024

L70 261 SEA SPE=ON ABB=ON PLU=ON (L27 OR L28) AND ED>=20240205 AND
ED<=20240603 AND PY>=2024

L71 38 SEA SPE=ON ABB=ON PLU=ON L69 AND L70

L72 1455 SEA SPE=ON ABB=ON PLU=ON L29 AND ED>=20240205 AND ED<=202406
03 AND PY>=2024

L73 1492 SEA SPE=ON ABB=ON PLU=ON L72 OR L71

L74 2917 SEA SPE=ON ABB=ON PLU=ON L65 OR L66 OR L68 OR L73

L75 2 SEA SPE=ON ABB=ON PLU=ON L70 AND L63 AND L54

L76 1 SEA SPE=ON ABB=ON PLU=ON L67 AND L63

L77 3 SEA SPE=ON ABB=ON PLU=ON L75 OR L76

L78 35 SEA SPE=ON ABB=ON PLU=ON L50 OR L55 OR L64 OR L77

FILE 'STNGUIDE' ENTERED AT 09:37:03 ON 04 JUN 2024

FILE 'CABA, SCISEARCH' ENTERED AT 09:37:04 ON 04 JUN 2024

L79 93 DUP REM L78 L49 (11 DUPLICATES REMOVED)
ANSWERS '1-35' FROM FILE CABA
ANSWERS '36-93' FROM FILE SCISEARCH
D L79 1-93 ALL PY

FILE 'CABA' ENTERED AT 10:37:30 ON 04 JUN 2024
REDISTRIBUTE 25 35

FILE 'SCISEARCH' ENTERED AT 10:37:32 ON 04 JUN 2024
REDISTRIBUTE 25 58

FILE 'CABA' ENTERED AT 10:37:33 ON 04 JUN 2024
ARCHIVE 25 35

FILE 'SCISEARCH' ENTERED AT 10:37:35 ON 04 JUN 2024
ARCHIVE 25 58

FILE 'STNGUIDE' ENTERED AT 10:37:36 ON 04 JUN 2024

FILE SCISEARCH

FILE COVERS 1974 TO 3 Jun 2024 (20240603/ED)

To bring you the most up-to-date SciSearch information,
SciSearch SDIs now run on Mondays.

FILE CABA

FILE LAST UPDATED: 3 Jun 2024 (20240603/UP)
FILE COVERS 1973 TO PRESENT

Annex III. List of reference publications used in identifying search terms and in validating the literature search strategy for Bayer GM soybean products literature search

The list below includes reference publications used for each relevant key element, namely event name, trade name, newly expressed proteins and intended traits. For GMO general and crop name search terms, given the breadth of the terms and as they are used to focus the search to GM crops, reference publications were considered not applicable.

Reference publication	Event
Berman KH, Harrigan GG, Riordan SG, Nemeth MA, Hanson C, Smith M, Sorbet R, Zhu E, Ridley WP. (2009). Compositions of seed, forage, and processed fractions from insect-protected soybean MON 87701 are equivalent to those of conventional soybean. <i>Journal of Agricultural and Food Chemistry</i> , 57, 11360-11369.	MON 87701
Berman KH, Harrigan GG, Riordan SG, Nemeth MA, Hanson C, Smith M, Sorbet R, Zhu E, Ridley WP. (2010) Compositions of forage and seed from second-generation glyphosate-tolerant soybean MON 89788 and insect-protected soybean MON 87701 from Brazil are equivalent to those of conventional soybean (<i>Glycine max</i>). <i>Journal of Agricultural and Food Chemistry</i> , 58, 6270-6276.	MON 87701 MON 89788
Berman KH, Harrigan GG, Riordan SG, Nemeth MA, Oliveira W, Tagliaferro F and Berger GU, (2011). Compositional equivalence of insect-protected glyphosate-tolerant soybean, MON 87701 x MON 89788, to conventional soybean extends across different world regions and multiple growing seasons. <i>Journal of Agricultural and Food Chemistry</i> , 59, 11643-11651.	MON 87701 MON 89788 MON 87701 × MON 89788
Harrigan GG, Ridley WP, Riordan SG, Nemeth MA, Sorbet R, Trujillo WA, Breeze ML, Schneider RW. (2007). Chemical composition of glyphosate-tolerant soybean 40-3-2 grown in Europe remains equivalent with that of conventional soybean (<i>Glycine max</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 55, 6160-6168.	40-3-2
Horak MJ, Rosenbaum EW, Kendrick DL, Sammons B, Phillips SL, Nickson TE, Dobert RC, Perez T. (2015) Plant characterization of Roundup Ready 2 Yield® soybean, MON 89788, for use in ecological risk assessment. <i>TRANSGENIC RESEARCH</i> , 24, 213-225	MON 89788
Lundry DR, Ridley WP, Meyer JJ, Riordan SG, Nemeth MA, Trujillo WA, Breeze ML, Sorbet R. (2008) Composition of	MON 89788

grain, forage, and processed fractions from second-generation glyphosate-tolerant soybean, MON 89788, is equivalent to that of conventional soybean (<i>Glycine max</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 56, 4611-4622.	
McCann MC, Liu K, Trujillo WA, Dobert RC. (2005). Glyphosate-tolerant soybeans remain compositionally equivalent to conventional soybeans (<i>Glycine max</i> L.) during three years of field testing. <i>Journal of Agricultural and Food Chemistry</i> , 53, 5331-5335.	40-3-2
Taylor NB, Fuchs RL, MacDonald J, Shariff AR, Padgett SR. (1999). Compositional analysis of glyphosate-tolerant soybeans treated with glyphosate. <i>Journal of Agricultural and Food Chemistry</i> , 47, 4469- 4473.	40-3-2
Taylor M, Bickel A, Mannion R, Bell E, Harrigan GG. (2017). Dicamba-tolerant soybeans (<i>Glycine max</i> L.) MON 87708 and MON 87708 × MON 89788 are compositionally equivalent to conventional soybean. <i>Journal of Agricultural and Food Chemistry</i> , 65, 8037–8045.	MON 87708 MON 89788 MON 87708 × MON 89788
Vries BD, Fehr WR. (2011) Impact of the MON89788 event for glyphosate tolerance on agronomic and seed traits of soybean. <i>Crop Science</i> , 51, 1023-1027.	MON 89788
Zhou J, Harrigan GG, Berman KH, Webb EG, Klusmeyer TH, Nemeth MA. (2011). Stability in the composition equivalence of grain from insect-protected maize and seed from glyphosate-tolerant soybean to conventional counterparts over multiple seasons, locations, and breeding germplasms. <i>Journal of Agricultural and Food Chemistry</i> , 59, 8822-8828.	40-3-2

Annex IV. Literature search in internet pages of relevant key organisations for Bayer GM soybean products covering time span 2023 - 2024

Relevant key organisations	Link to the relevant information and summary of the retrieved records
US EPA	<p>https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated – Accessed on 30 July 2024. The webpage dedicated to PIP registrations was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> 14 July 2020</p> <p><i>Limits applied:</i> The list of PIP active ingredients registered was sorted by ‘Year Registered’ and those registered starting from 2023 were assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “Zero”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> No record was retrieved.</p>
USDA	<p>https://www.aphis.usda.gov/aphis/ourfocus/biotechnology/regulatory-processes/petitions/petition-status/petitions-table - Accessed on 30 July 2024. The webpage dedicated to petitions for determination of nonregulated status was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> 08 July 2024</p> <p><i>Limits applied:</i> The list of the petitions was sorted by ‘Effective Date’ and those completed/ released starting from 01/01/2023 were assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “One”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved record is not relevant to Bayer GM soybean products.</p>
US FDA	<p>https://www.cfsanappsexternal.fda.gov/scripts/fdcc/?set=NewPlantVarietyConsultations – Accessed on 30 July 2024. The webpage dedicated to biotechnology consultations on food from GE plant varieties was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> 15 July 2024</p> <p><i>Limits applied:</i> The list of the consultations starting from the ‘FDA Letter Date’ of 01 01, 2023 was assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “Seven”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved records are not relevant to Bayer GM soybean products.</p>
CFIA	<p>https://active.inspection.gc.ca/netapp/plantnoveltraitpnt-vegecarnouvcn/pntvcne.aspx - Accessed on 02 September 2024. The webpage dedicated to repository documents referring to plants with novel traits was checked.</p>

Relevant key organisations	Link to the relevant information and summary of the retrieved records
	<p><i>Date of the most recent website update at the time of the search:</i> 27 August 2024</p> <p><i>Limits applied:</i> The list of repository documents referring to plants with novel traits starting from ‘approval for unconfined release/ livestock/ health Canada safety’ of 2023-01-01 was assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “11”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved records are not relevant to Bayer GM soybean products.</p>
Health Canada	<p>https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html - Accessed on 30 July 2024. The webpage dedicated to approved products of genetically modified (GM) foods and other novel foods was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> 24 July 2024</p> <p><i>Limits applied:</i> The list of novel food decisions starting from the ‘Decision Date (20YY/MM/DD)’ of 2023/01/01 was assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “Eight”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved records are not relevant to Bayer GM soybean products.</p>
FSANZ	<p>https://www.foodstandards.gov.au/consumer-information/consumer/current-status-genetically-modified-foods-applications - Accessed on 30 July 2024. The webpage dedicated to current GM applications and approvals was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> 01 July 2024</p> <p><i>Limits applied:</i> The list for GM applications and approvals with ‘Status’ approved or under assessment starting from 2023 was assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “12”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved records are not relevant to Bayer GM soybean products.</p>
CTNBio	<p>http://ctnbio.mctic.gov.br/liberacao-comercial#/liberacao-comercial/consultar-processo – Accessed on 30 July 2024. The webpage dedicated to commercial releases (= Liberações Comerciais) was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> Not available</p> <p><i>Limits applied:</i> The list of commercial releases for plants (= plantas) starting from 2023 was assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “Seven”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved records are not relevant to Bayer GM soybean products.</p>

CONABIA	<p>https://www.argentina.gob.ar/agroindustria/alimentos-y-bioeconomia/ogm-comerciales – Accessed on 30 July 2024. The webpage of the national advisory commission on agricultural biotechnology (= Comisión Nacional Asesora de Biotecnología Agropecuaria) was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> Not available</p> <p><i>Limits applied:</i> The list of events with commercial authorisation (= Eventos con autorización comercial) starting from 2023 were checked.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “10”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> One¹⁴ of the retrieved records is relevant to Bayer GM soybean products. It does not have any implication on the risk assessment, because no new hazards, modified exposure, or new scientific uncertainties are reported.</p>
MAFF	<p>https://www.maff.go.jp/j/syouan/nouan/carta/torikumi/attach/pdf/index-1.pdf Accessed on 30 July 2024. The weblink dedicated to list of approved genetically modified agricultural crops was checked.</p> <p><i>Date of the most recent website update at the time of the search:</i> 22 July 2024</p> <p><i>Limits applied:</i> The list of GM agricultural crops with approval date (‘承認日’) starting from 01 01, 2023 was assessed.</p> <p><i>Number of records retrieved matching the abovementioned criteria:</i> “16”.</p> <p><i>Number of relevant records or full-text documents retrieved:</i> The retrieved records are not relevant to Bayer GM soybean products</p>

¹⁴ CONABIA, 2024. Disposicion 3/2024, Materia prima para su procesamiento agroindustrial y con fines de uso alimentario humano y animal (MON-87751-7 ´ MON-87701-2 ´ MON- 87708-9 ´ MON-89788-1).

Annex V. Results of the publication selection process for Bayer GM soybean products literature search in SciSearch and CABA databases using STN® database catalogue

Table 1. Results of the publication selection process.

Review question captured in the search	Number of publications
Publications identified after searches of the scientific literature in SciSearch and CABA databases (following de-duplication)	305
Publications excluded after rapid assessment for relevance	302
Publications screened using full-text documents	3
Publications excluded after detailed assessment for relevance	0
Unobtainable publications	0
Unclear publications	0
Publications considered relevant	3

Table 2. List of all relevant publications for Bayer GM soybean products retrieved after detailed assessment of full-text documents for relevance: ordered by category of information.

Products ¹	Study (author(s) and year)	Title	Source
Food/Feed safety assessment			
Molecular characterisation			
40-3-2	(Du <i>et al.</i> , 2023)	Effect of soybean protein concentrate preparation on copy numbers and structural characteristics of DNA from genetically modified soybean.	Foods
Crop composition			
MON 87701 x MON 89788	(Benevenuto <i>et al.</i> , 2023)	Integration of omics analyses into GMO risk assessment in Europe: a case study from soybean field trials.	Environmental Sciences Europe
Agronomic and phenotypic characteristics			
40-3-2	(Costa <i>et al.</i> , 2023)	Seed reserve mobilization and seedling morphology of genetically modified soybean treated with glyphosate.	Pesquisa Agropecuaria Brasileira

¹ Products not listed above don't have relevant publication retrieved in this monitoring season.

Table 3. Report of the reliability and implications for the risk assessment of the relevant publication retrieved after detailed assessment of full-text document for relevance.

Study author(s) and year	Reliability appraisal	Implications for the risk assessment ¹
Food/Feed Safety assessment		
Molecular characterisation		
(Du <i>et al.</i> , 2023)	Low	None, because no new hazards, modified exposure, or new scientific uncertainties are reported
Crop composition		
(Benevenuto <i>et al.</i> , 2023)	Low	None, because no new hazards, modified exposure, or new scientific uncertainties are reported
Agronomic and phenotypic characteristics		
(Costa <i>et al.</i> , 2023)	Moderate	None, because no new hazards, modified exposure, or new scientific uncertainties are reported

¹ Identification of a new hazard, modified exposure, or new scientific uncertainty requiring further consideration in the risk assessment; **None**, because no new hazards, modified exposure, or new scientific uncertainties are reported; **None**, because the findings reported in the study are not reliable; Implications for risk assessment were previously considered by EFSA and/or its GMO Panel, and are therefore not addressed further here.

REFERENCES

Benevenuto RF, Zanatta CB, Waßmann F, Eckerstorfer MF and Agapito-Tenfen SZ, 2023. Integration of omics analyses into GMO risk assessment in Europe: a case study from soybean field trials. *Environmental Sciences Europe*, 35, 14.

Costa FCL, Peña SL and Pereira WA, 2023. Seed reserve mobilization and seedling morphology of genetically modified soybean treated with glyphosate. *Pesquisa Agropecuária Brasileira*, 58, e03042.

Du Y, Chen F, Liu K and Chen C, 2023. Effect of soybean protein concentrate preparation on copy numbers and structural characteristics of DNA from genetically modified soybean. *Foods*, 12.

**Annex VI. List of relevant publications retrieved from
SciSearch and CABA databases using STN®
database catalogue (provided in .RIS format)**

The list of the relevant publications is enclosed with this report (*see soybean.txt file*).