

7th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordonez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **EC:** Regina Eberhart
- **EFSA:** Cezara Ancuta Simon, Ruben Barcia, Winy Messens, Angel Ortiz Peláez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 6th Working Group meeting held on 19 April 2023¹

- The minutes of the 6th Working Group meeting held on 19 April 2023 were agreed by written procedure on 26 April 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence and the Decision of the Executive Director on Competing Interest Management, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion²

- The chair led the revision of the draft conclusions of the opinion and the additional points that constitutes the answer to the ToR. There was a general agreement in the working group on the main conclusions. Then, the body of the text was reviewed by addressing standing comments and requests for clarification by BIOHAZ Panel members following the thorough reading in the last plenary.

VI. Next meetings

- This was the last meeting of the working. No other meetings were scheduled.

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

² <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 19 April 2023

7th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in Regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals



VII. AOB

- There was no other business. The Chair and the EFSA secretariat thanked the participants for their contributions to the production of this opinion and closed the meeting.

6th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordonez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **Hearing expert:** Maarten Nauta (for point 4 of the agenda)
- **EFSA:** Cezara Ancuta Simon, Kateryna Chuzhakina, Winy Messens, Angel Ortiz Peláez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 5th Working Group meeting held on 21 March 2023¹

- The minutes of the 5th Working Group meeting held on 21 March 2023 were agreed by written procedure on 27 March 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence and the Decision of the Executive Director on Competing Interest Management, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion²

- The hearing expert presented the results of the individual judgements of the expert knowledge elicitation (EKE) exercise to address assessment question 5. He led the discussion to reach consensus for the nine scenarios selected, which was accomplished. Then, the chair led the review of the draft opinion, agreed some actions including the draft of new sections and the review of the draft answer to the term of reference.

VI. Next meetings

- The schedule of meetings for the rest of the mandate was reviewed and agreed as follows:
7th WG mtg: web-meeting Friday 12 May 09:30-13:30h.

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

² <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 19 April 2023

6th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in Regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals



VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting.

MINUTES – 19 April 2023

6th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in Regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals



Annex I

With regard to this meeting, Prof. Alessandra De Cessare declared the following interest: "Nomination as alternate member of the scientific committee of Europass organisation. Europass is an organisation of the Italy's Emilia Romagna Region and acts as a liaison of the Region with EFSA, also through a scientific committee that represents the Universities of the Region. Its mission is to inform about EFSA's role, activities and initiatives, to involve universities and research centres in studies and data analysis in the remit of EFSA, to promote research awards in the remit of EFSA, to promote specialisation of the regional agri-food sector in the European framework".

In accordance with EFSA's Policy on Independence³ and the Decision of the Executive Director on Competing Interest Management⁴, and taking into account the specific matters discussed at the meeting in question, the interest above was not deemed to represent a Conflict of Interest for the expert concerned.

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

⁴ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

5th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), , Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **Hearing expert:** Maarten Nauta (for point 5 of the agenda)
- **EFSA:** Ruben Barcia, Cezara Ancuta Simon, Kateryna Chuzhakina, Winy Messens, Angel Ortiz Peláez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 4th Working Group meeting held on 16 February 2023¹

- The minutes of the 4th Working Group meeting held on 16 February 2023 were agreed by written procedure on 23 February 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence and the Decision of the Executive Director on Competing Interest Management, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- Certain interests were declared orally by the members before the beginning of the meeting. For further details on the outcome of the screening of the Oral Declaration(s) of Interest made at the beginning of the meeting, please refer to the Annex I.

V. Scientific topic(s) for discussion²

- The hearing expert presented the expert knowledge elicitation (EKE) exercise to address assessment question 5. Following a presentation and a mock exercise, some questions were answered by the hearing expert. The chair proposed to provide feedback of the first reading of the draft opinion in the BIOHAZ Panel plenary when reviewing the comments in the document. The approach to measure the level of inactivation of the selected indicators by the methods under assessment was reopened, in the light of the results of the modelling exercise. The inclusion of an additional indicator, *Clostridium botulinum*, was discussed with the view to consider it in the evidence for the EKE. The results of the last literature review on thermal inactivation parameters of the four selected families of virus were presented. A course of action was agreed to extract the inactivation parameters and

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

² <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 21 March 2023

5th meeting of the working group on the efficacy of methods 2 to 5 and method 7  in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

use them in the model. The questions for the EKE were discussed and, finally, a review of the comments in the draft opinion was conducted.

VI. Next meetings

- The schedule of meetings for the rest of the mandate was reviewed and agreed as follows:
6th WG mtg: Wednesday 19 or Thursday 20 April (TBD) 14:00-18:00h CET.
7th WG mtg: Friday 12 May 09:30-13:30h.

VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting.



Annex I

With regard to this meeting, Prof. Alessandra De Cessare declared the following interest: "Nomination as alternate member of the scientific committee of Europass organisation. Europass is an organisation of the Italy's Emilia Romagna Region and acts as a liaison of the Region with EFSA, also through a scientific committee that represents the Universities of the Region. Its mission is to inform about EFSA's role, activities and initiatives, to involve universities and research centres in studies and data analysis in the remit of EFSA, to promote research awards in the remit of EFSA, to promote specialisation of the regional agri-food sector in the European framework".

In accordance with EFSA's Policy on Independence³ and the Decision of the Executive Director on Competing Interest Management⁴, and taking into account the specific matters discussed at the meeting in question, the interest above was not deemed to represent a Conflict of Interest for the expert concerned.

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

⁴ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

4th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordoñez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **EFSA:** Ruben Barcia, Angel Ortiz Pelaez, Cezara Ancuta Simon

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 3rd Working Group meeting held on 13 January 2023¹

- The minutes of the 3rd Working Group meeting held on 13 January 2023 were agreed by written procedure on 20 January 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion⁴

- The chair reviewed the actions agreed in the previous meeting. A conceptual model and introductory paragraphs were added to the approved protocol. The chair presented them to the working group. The topics discussed during the meeting were: the review of the outputs of the literature review for the identification of viral hazards and the identification of inactivation parameters for the pre-selected families; the selection of scenarios among the multiple variants of method 7 available; the review of the output of the literature review for the identification of inactivation parameters of *Clostridium perfringens*; the description of the methods applied to estimate the log₁₀ reduction (lethality) achieved by the different methods and the estimation of the level of compliance of the microbiological standards in the case of method 7; and the update of the exercise to address ToR5 via

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/piqpap.pdf>

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 16 February 2023

4th meeting of the working group on the efficacy of methods 2 to 5 and method 7  in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

judgment by consensus using an expert knowledge elicitation (EKE) framework. Finally, the state of the draft opinion was reviewed and a number of actions were agreed.

VI. Next meetings

- The schedule of meetings for the rest of the mandate was reviewed and agreed as follows:
5th WG mtg: Tuesday 21 March 2023. 09:30-13:30h CET
6th WG mtg: Wednesday 19 or Thursday 20 April (TBD) 14:00-18:00h CET.
7th WG mtg: Friday 12 May 09:30-13:30h.

VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting.

3rd meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordoñez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **EFSA:** Ruben Barcia, Angel Ortiz Pelaez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 2nd Working Group meeting held on 28 November 2022¹

- The minutes of the 2nd Working Group meeting held on 28 November 2022 were agreed by written procedure on 5 December 2022.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion⁴

- The chair reviewed the actions agreed in the previous meeting. The protocol was reviewed and amended, and the final version was agreed and will be submitted to the BIOHAZ Panel for approval. The following points were discussed during the meeting: the literature review of the viral hazard identification, the inactivation parameters for *Clostridium perfringens* which will be obtained via a literature review, the analysis of the data provided by the industry on the implementation of method 7, and the methods to estimate the inactivation of methods 2-5 and 7. Finally the draft opinion was reviewed and a number of sections and subsections will be drafted following the decisions made on the previous points in order to address the assessment questions.

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/piqpap.pdf>

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 13 January 2023

3rd meeting of the working group on the efficacy of methods 2 to 5 and method 7  in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

VI. Next meetings

- The schedule of meetings for the rest of the mandate was agreed as follows:
 - 4th WG meeting: one-day physical meeting on Thursday 16 February 2023.
 - 5th WG meeting: half-day web meeting on Tuesday 21 March 2023.
 - 6th WG meeting: format to be decided on Thursday 11 May 2023.

VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting



SCIENTIFIC PANEL ON BIOLOGICAL HAZARDS

MINUTES OF THE 2nd MEETING OF THE WORKING GROUP ON THE EFFICACY OF METHODS 2 TO 5 AND METHOD 7 SET OUT IN REGULATION (EU) NO 142/2011 TO INACTIVATE RELEVANT PATHOGENS WHEN PRODUCING PROCESSED ANIMAL PROTEIN OF PORCINE ORIGIN INTENDED TO FEED POULTRY AND AQUACULTURE ANIMALS

(EFSA-Q-2022-00455)

Physical. 28 November 2022

(Agreed on 5 December 2022)

Participants

- Working Group Members:
 - Alessandra De Cesare (chair)
 - Avelino Alvarez Ordoñez
 - Pablo Fernandez Escámez
 - Ursula Gonzales-Barron
 - Helen Roberts
 - Elisabetta Suffredini
- Hearing Experts¹:
Not Applicable
- European Commission and/or Member States representatives:
Not Applicable
- EFSA:
BIOHAW Unit: Angel Ortiz Peláez, Ruben Barcia, Joana Lourenco, Kateryna Chuzhakina, Ancuta Cezara Simon

¹ As defined in Article 15 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work: http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/expertselection.pdf

■ Others:

Not Applicable

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies for absence.

2. Adoption of agenda

The agenda was adopted without changes.

3. Agreement of the minutes of the 1st Working Group meeting held on 28 October 2022²

The minutes of the 1st Working Group meeting held on 28 October 2022 were agreed by written procedure on 4 November 2022.

4. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence³ and the Decision of the Executive Director on Competing Interest Management⁴, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

5. Scientific topic(s) for discussion

4.1 Scientific opinion on the porcine PAP (EFSA-Q-2022-00455) ⁵

After the introductions, oral declaration of interests and approval of the agenda, the chair led the discussion. Using the current draft of the protocol the working group discussed and amended the assessment questions reflecting the different aspects of the assessment: the criteria for the determination of the relevant pathogens that can be used as indicators to assess the efficacy of standard processing methods for Category 3 ABP of porcine origin (AQ1); the technical parameters (e.g., time, temperature, pressure, pH, particle size) of methods 2-5 and 7 (AQ2); the thermal inactivation parameters of the relevant pathogens identified AQ1 (AQ3); the level of inactivation of the selected relevant pathogens achieved by methods 2-5 and 7 (AQ4); the certainty that the level of inactivation achieved by methods 2-3-4-5 and 7 as in AQ4 is sufficient to reach the standards for Category 3 ABP (AQ5). The standards required to consider the level of inactivation sufficient were also agreed. The possible layout and contents of the opinion were agreed in line with the assessment and sub-assessment questions.

6. Any Other Business

² <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

⁴ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁵ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

The Chair thanked the participants and closed the meeting.

7. Next meeting(s)

The 3rd WG meeting will take place as a half-day web-meeting, on Friday 13 January 2023 13:00-17:00. The date of the 4th WG meeting had already been agreed in the previous meeting: Thursday 16 February 2023, as a full-day physical meeting. The dates of the following meetings were agreed: the 5th WG meeting will take place on Tuesday 25 March 2023 as a half-day web-meeting 09:30-13:30h, and the 6th WG meeting on Thursday 11 May 2023. The format of this meeting is still undecided.



SCIENTIFIC PANEL ON BIOLOGICAL HAZARDS

MINUTES OF THE 1st MEETING OF THE WORKING GROUP ON THE EFFICACY OF METHODS 2 TO 5 AND METHOD 7 SET OUT IN REGULATION (EU) NO 142/2011 TO INACTIVATE RELEVANT PATHOGENS WHEN PRODUCING PROCESSED ANIMAL PROTEIN OF PORCINE ORIGIN INTENDED TO FEED POULTRY AND AQUACULTURE ANIMALS

(EFSA-Q-2022-00455)

Web-meeting. 28 October 2022

(Agreed on 4 November 2022)

Participants

- Working Group Members:
 - Alessandra De Cesare (chair)
 - Avelino Alvarez Ordoñez
 - Pablo Fernandez Escámez
 - Helen Roberts
 - Elisabetta Suffredini
- Hearing Experts¹:
Not Applicable
- European Commission and/or Member States representatives:
Matjaz Klemencic (13:00-14:00h)
- EFSA:
BIOHAW Unit: Angel Ortiz Peláez, Ancuta Cezara Simon
- Others:
Not Applicable

¹ As defined in Article 15 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work: http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/expertselection.pdf

1. Welcome and apologies for absence

The Chair welcomed the participants. Apologies received from Ursula Gonzales-Barron.

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Scientific topic(s) for discussion

4.1 Scientific opinion on the porcine PAP (EFSA-Q-2022-00455) ⁴

After the introductions, oral declaration of interests and approval of the agenda, EFSA provided an brief introductory presentation reminding working groups members about a) administrative and logistical matters, the use of Microsoft Teams as the platform for communications and repository of data and documents during the lifespan of the mandate; c) the work plan, meetings planned and technical and scientific support provided by EFSA; d) uncertainty and protocol development guidance documents to be followed. The chair presented the mandate and members had the opportunity to ask the EC representative questions about the scope of the mandate. Then, the chair opened the discussion on the general understanding of the ToR and on the need to clarify with the requestor the scope of the mandate. During a brainstorming session on the approaches, a number of issues were brought up by the members, like the definitions of relevant pathogens and level of inactivation, and on the different nature of method 7, based on a microbiological criterion, as opposed to methods 2-0. A number of provisional assessment questions were drafted and discussed in order to break down the ToR and start populating the protocol.

5. Any Other Business

The Chair thanked the participants and closed the meeting.

5. Next meeting(s)

The 2nd WG meeting will take place as a one-day physical meeting at EFSA headquarters in Parma, Italy, on Monday 28 November 2022. The dates of the following meetings were provisionally agreed, pending for confirmation by one WG member: 3rd meeting as a half-day web-meeting on Friday 13 January 2023 13:00-17:00h CET, and the 4th meeting as a full-day physical meeting on Thursday 16 February 2023, 09:00-18:00h. There were no further dates agreed for meetings in 2023.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

6th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordonez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **Hearing expert:** Maarten Nauta (for point 4 of the agenda)
- **EFSA:** Cezara Ancuta Simon, Kateryna Chuzhakina, Winy Messens, Angel Ortiz Peláez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 5th Working Group meeting held on 21 March 2023¹

- The minutes of the 5th Working Group meeting held on 21 March 2023 were agreed by written procedure on 27 March 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence and the Decision of the Executive Director on Competing Interest Management, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion²

- The hearing expert presented the results of the individual judgements of the expert knowledge elicitation (EKE) exercise to address assessment question 5. He led the discussion to reach consensus for the nine scenarios selected, which was accomplished. Then, the chair led the review of the draft opinion, agreed some actions including the draft of new sections and the review of the draft answer to the term of reference.

VI. Next meetings

- The schedule of meetings for the rest of the mandate was reviewed and agreed as follows:
7th WG mtg: web-meeting Friday 12 May 09:30-13:30h.

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

² <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 19 April 2023

6th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in Regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals



VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting.

MINUTES – 19 April 2023

6th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in Regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals



Annex I

With regard to this meeting, Prof. Alessandra De Cessare declared the following interest: "Nomination as alternate member of the scientific committee of Europass organisation. Europass is an organisation of the Italy's Emilia Romagna Region and acts as a liaison of the Region with EFSA, also through a scientific committee that represents the Universities of the Region. Its mission is to inform about EFSA's role, activities and initiatives, to involve universities and research centres in studies and data analysis in the remit of EFSA, to promote research awards in the remit of EFSA, to promote specialisation of the regional agri-food sector in the European framework".

In accordance with EFSA's Policy on Independence³ and the Decision of the Executive Director on Competing Interest Management⁴, and taking into account the specific matters discussed at the meeting in question, the interest above was not deemed to represent a Conflict of Interest for the expert concerned.

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

⁴ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

5th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), , Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **Hearing expert:** Maarten Nauta (for point 5 of the agenda)
- **EFSA:** Ruben Barcia, Cezara Ancuta Simon, Kateryna Chuzhakina, Winy Messens, Angel Ortiz Peláez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 4th Working Group meeting held on 16 February 2023¹

- The minutes of the 4th Working Group meeting held on 16 February 2023 were agreed by written procedure on 23 February 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence and the Decision of the Executive Director on Competing Interest Management, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- Certain interests were declared orally by the members before the beginning of the meeting. For further details on the outcome of the screening of the Oral Declaration(s) of Interest made at the beginning of the meeting, please refer to the Annex I.

V. Scientific topic(s) for discussion²

- The hearing expert presented the expert knowledge elicitation (EKE) exercise to address assessment question 5. Following a presentation and a mock exercise, some questions were answered by the hearing expert. The chair proposed to provide feedback of the first reading of the draft opinion in the BIOHAZ Panel plenary when reviewing the comments in the document. The approach to measure the level of inactivation of the selected indicators by the methods under assessment was reopened, in the light of the results of the modelling exercise. The inclusion of an additional indicator, *Clostridium botulinum*, was discussed with the view to consider it in the evidence for the EKE. The results of the last literature review on thermal inactivation parameters of the four selected families of virus were presented. A course of action was agreed to extract the inactivation parameters and

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

² <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 21 March 2023

5th meeting of the working group on the efficacy of methods 2 to 5 and method 7  in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

use them in the model. The questions for the EKE were discussed and, finally, a review of the comments in the draft opinion was conducted.

VI. Next meetings

- The schedule of meetings for the rest of the mandate was reviewed and agreed as follows:
6th WG mtg: Wednesday 19 or Thursday 20 April (TBD) 14:00-18:00h CET.
7th WG mtg: Friday 12 May 09:30-13:30h.

VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting.



Annex I

With regard to this meeting, Prof. Alessandra De Cessare declared the following interest: "Nomination as alternate member of the scientific committee of Europass organisation. Europass is an organisation of the Italy's Emilia Romagna Region and acts as a liaison of the Region with EFSA, also through a scientific committee that represents the Universities of the Region. Its mission is to inform about EFSA's role, activities and initiatives, to involve universities and research centres in studies and data analysis in the remit of EFSA, to promote research awards in the remit of EFSA, to promote specialisation of the regional agri-food sector in the European framework".

In accordance with EFSA's Policy on Independence³ and the Decision of the Executive Director on Competing Interest Management⁴, and taking into account the specific matters discussed at the meeting in question, the interest above was not deemed to represent a Conflict of Interest for the expert concerned.

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

⁴ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

4th meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordoñez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **EFSA:** Ruben Barcia, Angel Ortiz Pelaez, Cezara Ancuta Simon

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 3rd Working Group meeting held on 13 January 2023¹

- The minutes of the 3rd Working Group meeting held on 13 January 2023 were agreed by written procedure on 20 January 2023.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion⁴

- The chair reviewed the actions agreed in the previous meeting. A conceptual model and introductory paragraphs were added to the approved protocol. The chair presented them to the working group. The topics discussed during the meeting were: the review of the outputs of the literature review for the identification of viral hazards and the identification of inactivation parameters for the pre-selected families; the selection of scenarios among the multiple variants of method 7 available; the review of the output of the literature review for the identification of inactivation parameters of *Clostridium perfringens*; the description of the methods applied to estimate the log₁₀ reduction (lethality) achieved by the different methods and the estimation of the level of compliance of the microbiological standards in the case of method 7; and the update of the exercise to address ToR5 via

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/piqpap.pdf>

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 16 February 2023

4th meeting of the working group on the efficacy of methods 2 to 5 and method 7  in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

judgment by consensus using an expert knowledge elicitation (EKE) framework. Finally, the state of the draft opinion was reviewed and a number of actions were agreed.

VI. Next meetings

- The schedule of meetings for the rest of the mandate was reviewed and agreed as follows:
5th WG mtg: Tuesday 21 March 2023. 09:30-13:30h CET
6th WG mtg: Wednesday 19 or Thursday 20 April (TBD) 14:00-18:00h CET.
7th WG mtg: Friday 12 May 09:30-13:30h.

VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting.

3rd meeting of the working group on the efficacy of methods 2 to 5 and method 7 set out in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

Location: Web-meeting

Attendees:

- **Working group members:** Alessandra De Cesare (chair), Avelino Alvarez Ordoñez, Pablo Fernandez Escámez, Ursula Gonzales-Barron, Helen Roberts, Elisabetta Suffredini
- **EFSA:** Ruben Barcia, Angel Ortiz Pelaez

I. Welcome and apologies

- The Chair welcomed the participants. No apologies received.

II. Adoption of the agenda

- The agenda was adopted without changes.

III. Approval of the minutes of the 2nd Working Group meeting held on 28 November 2022¹

- The minutes of the 2nd Working Group meeting held on 28 November 2022 were agreed by written procedure on 5 December 2022.

IV. Declarations of Interest of Working Groups members

- In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.
- No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

V. Scientific topic(s) for discussion⁴

- The chair reviewed the actions agreed in the previous meeting. The protocol was reviewed and amended, and the final version was agreed and will be submitted to the BIOHAZ Panel for approval. The following points were discussed during the meeting: the literature review of the viral hazard identification, the inactivation parameters for *Clostridium perfringens* which will be obtained via a literature review, the analysis of the data provided by the industry on the implementation of method 7, and the methods to estimate the inactivation of methods 2-5 and 7. Finally the draft opinion was reviewed and a number of sections and subsections will be drafted following the decisions made on the previous points in order to address the assessment questions.

¹ <https://www.efsa.europa.eu/sites/default/files/2022-11/piqpap.pdf>

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

MINUTES – 13 January 2023

3rd meeting of the working group on the efficacy of methods 2 to 5 and method 7  in regulation (EU) no 142/2011 to inactivate relevant pathogens when producing processed animal protein of porcine origin intended to feed poultry and aquaculture animals

VI. Next meetings

- The schedule of meetings for the rest of the mandate was agreed as follows:
 - 4th WG meeting: one-day physical meeting on Thursday 16 February 2023.
 - 5th WG meeting: half-day web meeting on Tuesday 21 March 2023.
 - 6th WG meeting: format to be decided on Thursday 11 May 2023.

VII. AOB

- There was no other business. The Chair thanked the participants and closed the meeting



SCIENTIFIC PANEL ON BIOLOGICAL HAZARDS

MINUTES OF THE 2nd MEETING OF THE WORKING GROUP ON THE EFFICACY OF METHODS 2 TO 5 AND METHOD 7 SET OUT IN REGULATION (EU) NO 142/2011 TO INACTIVATE RELEVANT PATHOGENS WHEN PRODUCING PROCESSED ANIMAL PROTEIN OF PORCINE ORIGIN INTENDED TO FEED POULTRY AND AQUACULTURE ANIMALS

(EFSA-Q-2022-00455)

Physical. 28 November 2022

(Agreed on 5 December 2022)

Participants

- Working Group Members:
 - Alessandra De Cesare (chair)
 - Avelino Alvarez Ordoñez
 - Pablo Fernandez Escámez
 - Ursula Gonzales-Barron
 - Helen Roberts
 - Elisabetta Suffredini
- Hearing Experts¹:
Not Applicable
- European Commission and/or Member States representatives:
Not Applicable
- EFSA:
BIOHAW Unit: Angel Ortiz Peláez, Ruben Barcia, Joana Lourenco, Kateryna Chuzhakina, Ancuta Cezara Simon

¹ As defined in Article 15 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work: http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/expertselection.pdf

■ Others:

Not Applicable

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies for absence.

2. Adoption of agenda

The agenda was adopted without changes.

3. Agreement of the minutes of the 1st Working Group meeting held on 28 October 2022²

The minutes of the 1st Working Group meeting held on 28 October 2022 were agreed by written procedure on 4 November 2022.

4. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence³ and the Decision of the Executive Director on Competing Interest Management⁴, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

5. Scientific topic(s) for discussion

4.1 Scientific opinion on the porcine PAP (EFSA-Q-2022-00455) ⁵

After the introductions, oral declaration of interests and approval of the agenda, the chair led the discussion. Using the current draft of the protocol the working group discussed and amended the assessment questions reflecting the different aspects of the assessment: the criteria for the determination of the relevant pathogens that can be used as indicators to assess the efficacy of standard processing methods for Category 3 ABP of porcine origin (AQ1); the technical parameters (e.g., time, temperature, pressure, pH, particle size) of methods 2-5 and 7 (AQ2); the thermal inactivation parameters of the relevant pathogens identified AQ1 (AQ3); the level of inactivation of the selected relevant pathogens achieved by methods 2-5 and 7 (AQ4); the certainty that the level of inactivation achieved by methods 2-3-4-5 and 7 as in AQ4 is sufficient to reach the standards for Category 3 ABP (AQ5). The standards required to consider the level of inactivation sufficient were also agreed. The possible layout and contents of the opinion were agreed in line with the assessment and sub-assessment questions.

6. Any Other Business

² <https://www.efsa.europa.eu/sites/default/files/2022-11/pigpap.pdf>

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

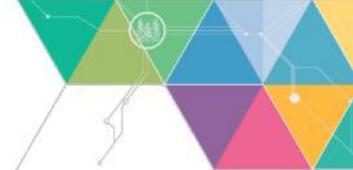
⁴ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁵ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>

The Chair thanked the participants and closed the meeting.

7. Next meeting(s)

The 3rd WG meeting will take place as a half-day web-meeting, on Friday 13 January 2023 13:00-17:00. The date of the 4th WG meeting had already been agreed in the previous meeting: Thursday 16 February 2023, as a full-day physical meeting. The dates of the following meetings were agreed: the 5th WG meeting will take place on Tuesday 25 March 2023 as a half-day web-meeting 09:30-13:30h, and the 6th WG meeting on Thursday 11 May 2023. The format of this meeting is still undecided.



SCIENTIFIC PANEL ON BIOLOGICAL HAZARDS

MINUTES OF THE 1st MEETING OF THE WORKING GROUP ON THE EFFICACY OF METHODS 2 TO 5 AND METHOD 7 SET OUT IN REGULATION (EU) NO 142/2011 TO INACTIVATE RELEVANT PATHOGENS WHEN PRODUCING PROCESSED ANIMAL PROTEIN OF PORCINE ORIGIN INTENDED TO FEED POULTRY AND AQUACULTURE ANIMALS

(EFSA-Q-2022-00455)

Web-meeting. 28 October 2022

(Agreed on 4 November 2022)

Participants

- Working Group Members:
 - Alessandra De Cesare (chair)
 - Avelino Alvarez Ordoñez
 - Pablo Fernandez Escámez
 - Helen Roberts
 - Elisabetta Suffredini
- Hearing Experts¹:
Not Applicable
- European Commission and/or Member States representatives:
Matjaz Klemencic (13:00-14:00h)
- EFSA:
BIOHAW Unit: Angel Ortiz Peláez, Ancuta Cezara Simon
- Others:
Not Applicable

¹ As defined in Article 15 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work: http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/expertselection.pdf

1. Welcome and apologies for absence

The Chair welcomed the participants. Apologies received from Ursula Gonzales-Barron.

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Scientific topic(s) for discussion

4.1 Scientific opinion on the porcine PAP (EFSA-Q-2022-00455) ⁴

After the introductions, oral declaration of interests and approval of the agenda, EFSA provided an brief introductory presentation reminding working groups members about a) administrative and logistical matters, the use of Microsoft Teams as the platform for communications and repository of data and documents during the lifespan of the mandate; c) the work plan, meetings planned and technical and scientific support provided by EFSA; d) uncertainty and protocol development guidance documents to be followed. The chair presented the mandate and members had the opportunity to ask the EC representative questions about the scope of the mandate. Then, the chair opened the discussion on the general understanding of the ToR and on the need to clarify with the requestor the scope of the mandate. During a brainstorming session on the approaches, a number of issues were brought up by the members, like the definitions of relevant pathogens and level of inactivation, and on the different nature of method 7, based on a microbiological criterion, as opposed to methods 2-0. A number of provisional assessment questions were drafted and discussed in order to break down the ToR and start populating the protocol.

5. Any Other Business

The Chair thanked the participants and closed the meeting.

5. Next meeting(s)

The 2nd WG meeting will take place as a one-day physical meeting at EFSA headquarters in Parma, Italy, on Monday 28 November 2022. The dates of the following meetings were provisionally agreed, pending for confirmation by one WG member: 3rd meeting as a half-day web-meeting on Friday 13 January 2023 13:00-17:00h CET, and the 4th meeting as a full-day physical meeting on Thursday 16 February 2023, 09:00-18:00h. There were no further dates agreed for meetings in 2023.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://open.efsa.europa.eu/questions/EFSA-Q-2022-00455>