

1 **Eighty third Advisory Committee on Animal Feedingstuffs meeting**

2 4<sup>th</sup> April 2023 – Online meeting

3

**ACAF**

**FSA**

Nicholas Jonsson (Chair)

Nathan Allen

Martin Briggs

Alexander Cooper

Katrina Campbell

Michael Dickinson

Christine McAlinden

Donal Griffin

Susan MacDonald

Emily Hudson

Donald Morrison

Michelle Hutchison

Derek Renshaw

Kaitlyn Jukes

Mike Salter

Francisco Matilla

Adam Smith

Barry Maycock

Helen Warren

Lucy Smythe

Nick Wheelhouse

Johann Trotter

4

5 **1. Apologies**

6 Matthew Fisher extended his apologies for the meeting.

7

8 **2. Welcome**

9 The Chair welcomed members of the Committee, Secretariat and observers from the  
10 Devolved Administrations.

11

12 **3. Risk Assessment update**

13 The Regulated Products Team Leader Donal Griffin gave an update on the status of  
14 feed additive applications currently being processed by the Regulated Products Risk  
15 Assessment Team. Currently nine applications are undergoing suitability checks and  
16 fifty-one are ready to commence the assessment process. Twenty-one applications  
17 are currently under assessment by the Committee. Lastly, twenty applications have  
18 been completed or are going through opinion completion.

19 Members were briefed on the ongoing recruitment campaigns for new Committee  
20 and Secretariat members to increase work capacity. The Committee was also  
21 briefed on the agreed terminology for the two different outputs of their assessments.  
22 The Committee's assessment will be named "Committee's Advice". The FSA/FSS-  
23 owned document adopting the Committee's conclusions and any other pieces of  
24 evidence (such as the NRL's conclusions) will be named "Safety Assessment".

25

26 **4. Policy Update**

27 Members of the Feed Additives Policy Team sent their apologies for the meeting.  
28 Further updates would be provided at the following meeting.

29

## 30 **5. Minutes from 82nd Meeting**

31 The Committee reviewed the minutes from the 82<sup>nd</sup> ACAF meeting and provided  
32 feedback to be reviewed by the Secretariat.

33

## 34 **6. Dossier for assessment: RP859 – Chlorophyllins**

35 Susan MacDonald declared an indirect conflict of interest and was allowed to stay for  
36 the discussion.

37 An application was evaluated requesting a new authorisation of “chlorophyllins” as a  
38 feed additive for its use in poultry for fattening, under the category “zootechnical  
39 additives” and functional group “other zootechnicals”. The additive is intended to act  
40 as a marker to detect faecal matter contamination in poultry carcasses.

41 The Committee noted that, although a qualitative description of the additive’s  
42 components had been provided, these had not been expressed as a percentage of  
43 the final product. **It was requested that the applicant should be asked to provide  
44 a quantitative description of the additive’s composition.** While the application  
45 presented data of impurities and the correspondent certificates of analyses, these  
46 were out-of-date and did not specify the method of analysis in the final product.  
47 Furthermore, the application did not present impurity testing on dioxins, pesticides  
48 and PCBs. **Members requested that the applicant should be asked to provide  
49 updated certificates of analysis for all relevant impurities, specifying the  
50 method of analysis for each impurity.**

51 The stability studies in feed were evaluated by members, who noted that a stock  
52 solution that was not fully characterised had been added to the test feed, instead of  
53 the final form of the additive. Furthermore, while the applicant proposed to administer  
54 the product through drinking water, no water stability studies were presented. After  
55 considering the application’s rationale for its absence, **the Committee concluded  
56 that the applicant should be asked to provide a stability test in water using the  
57 final form of the product, and to indicate the expected shelf-life of the product  
58 after being mixed in water.**

59 Members evaluated an acute oral toxicity and a 90-day toxicity studies in rats,  
60 supporting safety for the target species, and concluded that there were no adverse  
61 effects. However, the studies could not be considered further due to the lack of  
62 quantitative composition description of the additive, which impedes identifying the  
63 test substance as the additive. **The Committee requested that the applicant  
64 should be asked to provide evidence that the additive tested in the studies is  
65 the same as the one proposed for authorisation.**

66 The Committee noted that the claim that the additive has low oral bioavailability was  
67 not supported by any ADME studies. A parallel study from the literature on a  
68 chemically related substance (chlorophyllide a) showed that intraperitoneal doses  
69 were rapidly excreted into faeces. However, members did not think these results  
70 could be extrapolated to show the pharmacokinetics of chlorophyllins, and

71 **requested that the applicant should be asked to provide further evidence of**  
72 **ADME processes and oral bioavailability.** Given the absence of data provided  
73 supporting safety for users and workers, and considering the product was shown to  
74 be very dusty, members **concluded that the additive would have to be**  
75 **considered potentially hazardous for the skin, eyes and respiratory routes of**  
76 **exposure,** unless further information was provided. The applicant explained that no  
77 environmental safety studies were required since chlorophyllins occur naturally, but  
78 the Committee questioned this argument given that, when concentrated, naturally  
79 occurring substances can pose a risk. **It was requested that the applicant should**  
80 **be asked to provide an environmental risk assessment following guidance**  
81 **recommendations.**

82 Members evaluated an efficacy proof-of-concept study, noting that the compound  
83 could be detected in poultry faecal matter. A discussion ensued in which it was  
84 concluded that the study design of three efficacy trials presented was not up to  
85 standard, and that evidence of efficacy was insufficient. Furthermore, the application  
86 was not clear in describing the practical incorporation of the additive into the  
87 slaughter line. **The Committee requested that the applicant should be asked to**  
88 **provide further evidence of efficacy following the principles listed in the**  
89 **efficacy guidelines.**

90

## 91 **7. Dossier for assessment: RP1039-40 – VTR-Xylanase**

92 Adam Smith declared an indirect conflict of interest and remained in the meeting for  
93 the discussion.

94 An application was evaluated for the additive VTR Xylanase. The application seeks  
95 new authorisation under the category “zootechnical”, functional group “digestibility  
96 enhancer” for its use in all pig (RP1039) and avian species (RP1040).

97 The Committee highlighted that a comprehensive analysis of antimicrobial DNA  
98 sequences and viable cells in the final product had been performed. Assessment of  
99 impurities data showed an absence of aflatoxin B1 analysis. **The applicant would be**  
100 **asked to provide information on the presence / absence of aflatoxin B1 in line**  
101 **with guidance.** The dossier did not contain FAMI QS and HACCP documentation for  
102 the manufacturing process and several SDS documents provided contained errors  
103 (e.g., no exposure limits included in documentation). **The applicant would be asked**  
104 **to provide appropriate FAMI QS and HACCP documentation as well as corrected**  
105 **SDS documents.** Whilst evaluating the stability and homogeneity of the additive  
106 members noted that the pelleting process was only conducted at 70°C with no  
107 evidence of holding time provided. Furthermore, the homogeneity of the additive in its  
108 granular form was not well demonstrated with CVs of 39% powder in mash and 30%  
109 powder in pellets. **The applicant would be asked to provide further pelleting data**  
110 **ensuring scientific guidelines are followed. The applicant would also be asked**  
111 **to provide further information to demonstrate homogeneity of the additive in its**  
112 **granular form.**

113 As the enzyme was derived from a QPS organism, safety for the consumer, target  
114 species and the environment did not require evaluation. The Committee evaluated the  
115 safety of the additive determining that the absence of toxicological studies was  
116 acceptable owing to its QPS status. Although the dusting potential had been  
117 demonstrated to be low, the Committee discussed the potential respiratory nature of  
118 the additive as an enzyme. The Committee concluded the additive should be  
119 considered a respiratory sensitiser and therefore determined that appropriate PPE  
120 should be used when handling. The Committee considered the suitability of *in vitro*  
121 eye irritation studies in the investigation of enzymes, with members concluding the  
122 studies provided were acceptable for assessment. Discrepancies between the safety  
123 recommendations in the dossier and the MSDS provided were highlighted by the  
124 Committee. **The applicant would be asked to provide an updated version of the  
125 MSDS document to include the safety information described in the dossier as  
126 well as to correct the spelling mistakes throughout.**

127 Efficacy data presented within the dossier was assessed with the Committee noting it  
128 was unclear as to which form of the additive was used in each of the studies provided,  
129 with the length of the studies presented for laying hens noted to be below the minimum  
130 trial duration as defined in guidance. Further inconsistencies in the inclusion level of  
131 the additive in both pig and avian species were noted throughout the dossier. **The  
132 applicant would be asked to clarify the form of the additive used in each of the  
133 efficacy trials and the reason for the deviation from EFSA guidance in the length  
134 of the efficacy trials in laying hens. The applicant would also be asked to review  
135 the documentation provided and to clarify the minimum inclusion rate for both  
136 porcine and avian species ensuring all documents are corrected to ensure  
137 consistency throughout.**

138

#### 139 **8. Dossier for assessment: RP1047 – Magni-Phi**

140 No conflicts of interest were declared for this item.

141 An application was evaluated for Magni-Phi<sup>®</sup>, a preparation of powdered dry *Quillaja*  
142 *saponaria* (85% w/w) and dry *Yucca schidigera* (15% w/w) with a minimum saponin  
143 content of 3.5% (w/w). The applicant is requesting a new authorisation under the  
144 category “zotechnical additives” for its use in all avian species (excluding laying and  
145 breeding birds).

146 There was uncertainty surrounding the identity of the product and the comparison to  
147 other substances referenced by the applicant through the literature. **The Committee  
148 requested that the applicant should be asked to provide a more detailed  
149 description and analytical characterisation of their product, explaining exactly  
150 how it relates to the other products they have described.** Members evaluated  
151 the manufacturing process, noting that only brief details were provided, namely  
152 around the blending and drying phases, and that no HACCP information was given,  
153 therefore members requested **that the applicant should be asked to provide a  
154 more detailed account of the manufacturing process, including HACCP  
155 information.** It was noted that there was no explanation given for why only 10g of

156 product were tested for *Salmonella* as opposed to 25g as per guidance  
157 recommendation. **Members requested that the applicant should be asked to**  
158 **explain why only 10g of product were used for these tests.** Members discussed  
159 the potential for issues with contaminants in the final product. The **applicant would**  
160 **be asked to provide further analytical data from different batches, and to**  
161 **describe how they manage any potential contaminant risk.** The coefficients of  
162 variation for homogeneity ranged from 9 to 15%, which is outside the recommended  
163 range of 10%. It was concluded **the applicant should be asked to explain this**  
164 **higher variation within their homogeneity results.** It was noted that the GMP+  
165 certificates provided by the applicant are no longer valid, **therefore it was**  
166 **requested that the applicant should be asked to provide valid certificates.**

167 The Committee evaluated the tolerance studies provided, commenting that they  
168 were not carried out to GLP, but methods were well described, and the study  
169 conducted and monitored by persons with appropriate experience. However,  
170 members requested that **the applicant should be asked to provide details on**  
171 **how blood samples were collected, stored and analysed, as well as certificates**  
172 **for assurance of quality to be provided for this study.** Members concluded that  
173 the explanation given for the lack of toxicological data was not sufficient. The EFSA  
174 opinion provided was for a *Quillaja* extract product only, as opposed to the blend  
175 used for this feed additive. As no inhalation toxicity data were provided, **the additive**  
176 **must be regarded as potentially harmful by inhalation. The additive should**  
177 **also be regarded as a potential skin sensitiser for the same reason.** Members  
178 commented that the results of the in vitro test for eye irritation were strongly positive,  
179 indicating the potential to cause serious eye damage. **Members requested that the**  
180 **applicant should be asked to revise the SDS with regards to both the potential**  
181 **for eye damage and the need for respiratory protection.**

182 Members assessed the four *in vivo* efficacy studies provided by the applicant, noting  
183 inconsistent performance results, but acceptable digestibility results. The Committee  
184 queried if trials in broilers can be used to extend to all avian species excluding layers  
185 and breeders, noting the animal categories listed by the applicant for authorisation  
186 were not clear. **Members requested that the applicant should be asked to clarify**  
187 **if their intended extrapolation is for other poultry for fattening and ornamental**  
188 **birds.** Members agreed that no further studies on the quality of animal products  
189 would be required.

190

## 191 **9. Dossier for assessment: RP1087 – Guanidinoacetic acid**

192 No conflicts of interest were declared for this item.

193 An application was evaluated for Guanidinoacetic acid (GAA) currently authorised for  
194 its use in chickens for fattening, weaned piglets and pigs for fattening. The applicant  
195 requested an extension of use to all animal species. The additive falls under the  
196 category “Nutritional Additives” and the functional group “Amino acids, their salts and  
197 analogues”.

198 It was noted that the microbial impurities were described in the application, however  
199 no certificate of analysis was provided. **The Committee requested that the**  
200 **applicant should be asked to provide the certificate of analysis for tests**  
201 **carried out on the final formulation of the product.** Within the manufacturing  
202 process section, it was mentioned that the HACCP details were not provided. **The**  
203 **Committee requested that the applicant should be asked to provide the**  
204 **HACCP protocol.** Members discussed whether the high dusting potential shown in  
205 the application dossier was due to the formulation or the production process. **The**  
206 **Committee requested that the applicant should be asked to identify the source**  
207 **of the dust.**

208 It was mentioned that the stability of the product in premixes, water and feed is  
209 acceptable, however two samples within the poultry mash homogeneity trial were  
210 discarded, but the reason for discarding them was not given. **The Committee**  
211 **requested that the applicant should be asked to clarify this uncertainty.** It was  
212 also noted the applicant provided data for stability of pelleting at temperatures of  
213 86°C and above for up to 30 seconds. Members stated that, for breeding poultry,  
214 feed is commonly processed at 86°C for up to 6 minutes and **requested that the**  
215 **applicant should be asked to provide data of stability under these conditions .**  
216 The Committee discussed a table showing the content of GAA at two inclusion levels  
217 in the pelleted, starter, and grower feeds over a period of 48 months. Some readings  
218 showed an inaccuracy of up to 5% of higher content of GAA than initially included. **It**  
219 **was concluded that the applicant should be asked to clarify the reason for this**  
220 **5% GAA content increase.**

221 The Committee concluded that the literature search carried out for safety for the  
222 target species appeared to be detailed and comprehensive. It was noted there were  
223 no concerns from the literature review on tolerance studies, including no adverse  
224 effects on toxicological testing. Members evaluated a reference to a previous EFSA  
225 conclusion that the mutagenicity and genotoxicity studies provided evidenced  
226 absence of concerning effects, however, the original data could not be accessed.  
227 **The Committee requested that the applicant should be asked to provide the**  
228 **evidence that additive is non-mutagenic and non-genotoxic.** It was noted that  
229 overall, the studies provided showed that GAA had no adverse toxicological effects.

230 The Committee concluded that, based on the information provided, the additive  
231 should be considered not irritant to skin or eyes, and to not be a dermal sensitiser.  
232 Acute toxic effects of GAA (5.13 mg/L) after single exposure via inhalation was  
233 conducted on 10 healthy rats according to GLP. All animals survived exposure,  
234 exhibited irregular respiration for the first day and appeared active and healthy for  
235 the following 14-day observation periods with no abnormalities being reported. It was  
236 noted the application described respiratory protection not being required under  
237 normal use. However, members concluded that, given the dusting potential of the  
238 additive, use of respiratory protection would be advisable to reduce inhalation  
239 exposure.

240 The efficacy section was considered to be supported by a well conducted literature  
241 review. It was concluded that the efficacy in growing pigs and poultry was clearly

242 shown, as well as other avian species such as quail, ducks and turkeys. There was a  
243 discussion on whether the extension of authorisation to all animal species had been  
244 covered in this application, as the publications presented did not include the species  
245 listed in the technical guidance: laying hens, sows, calves, cows, salmonids and  
246 three other different fish species. **The Committee requested that the applicant**  
247 **should be asked to provide evidence of efficacy for the missing animal**  
248 **categories before being able to conclude on the efficacy of the additive for all**  
249 **animal species.**

250

#### 251 **10. Response to RFI: RP1307 – Colic sachet**

252 No conflicts of interest were declared for this item.

253 The Committee re-evaluated the query sent to the applicant regarding the lack of  
254 safety and efficacy evidence shown. A change in the composition of the PARNUT  
255 was proposed by the applicant, and new references were provided. **The Committee**  
256 **concluded that the PARNUT application had now shown evidence of safety**  
257 **and efficacy and could move ahead in the assessment process.**

258

#### 259 **11. Response to RFI: RP593 – Hostazym C**

260 Adam Smith declared an indirect conflict of interest and was allowed to stay for the  
261 discussion.

262 Members discussed the evidence presented for various queries sent to the applicant.  
263 The response was concluded to be adequate for the updated conditions of use,  
264 homogeneity data and confirmation of absence of the production strain in the final  
265 product. Members noted the pelleting stability was not tested for extended retention  
266 times. **It was requested that the applicant should be asked to accept the**  
267 **Committee's conclusion of stability at high temperatures for a shorter time, or**  
268 **re-do the test with longer retention times.**

269

#### 270 **12. Response to RFI: RP791 – *L. buchneri*, etc.**

271 No conflicts of interest were reported for this item.

272 The Committee evaluated the detailed explanation given for the absence of  
273 vancomycin resistance gene hits and the additional information. Members were  
274 satisfied with this explanation. The Committee had previously requested evidence  
275 demonstrating that the additives remain the same as in the original authorisation.  
276 Although there was discussion about issues regarding the testing used, members  
277 were convinced that the various samples of bacteria tested remained relatively  
278 stable. The applicant had provided documentation to support their stance that  
279 because the OECD in vitro methods are not validated for microorganisms, they do  
280 not need to perform them to support safety for the user/worker. The Committee  
281 discussed this and concluded that other factors needed to be taken into

282 consideration regarding the final product and not just the microorganism. Therefore,  
283 members still stated that they can only conclude on the one organism tested and the  
284 others must be regarded as potential skin sensitisers and irritants, as well as eye  
285 irritants. After providing the requested individual animal data from the eye irritancy  
286 test, the Committee concluded that *Pediococcus acidlactici* MA 18/5M is not an eye  
287 irritant. The application would move to the Safety Assessment formulation stage.

288

### 289 **13. Response to RFI: RP416 – Aextra XB**

290 Adam Smith declared an indirect conflict of interest and was allowed to stay for the  
291 discussion.

292 The applicant provided a literature review as evidence that the production strain  
293 does not have the capacity to produce hazardous products. Members commented  
294 that a WGS analysis would have been preferred, but requesting it from the applicant  
295 would not add any additional information to what had already been provided, and  
296 concluded that the strain can be considered safe. The Committee also concluded  
297 that the applicant had demonstrated that the product under renewal is the same as  
298 that of the original application.

299

### 300 **14. Response to RFI: RP420 – Aextra Phy Gold**

301 Adam Smith declared an indirect conflict of interest and was allowed to stay for the  
302 discussion.

303 Members evaluated the stability data presented by the applicant and concluded that  
304 stability at high temperatures during several minutes had been proven. The applicant  
305 had also been asked to carry out a new *in vitro* micronucleus test following OECD  
306 TG 487. Members concluded that absence of genotoxic potential had been  
307 demonstrated. The application would move to the Safety Assessment formulation  
308 stage.

309

### 310 **15. Draft opinions**

311 Members were presented with draft opinions for applications RP666, RP694 and  
312 RP748. Feedback was provided to be reviewed by the Secretariat.

313 The Committee was also presented with the final version of opinions for applications  
314 RP226 and RP686. The Committee provided feedback on final corrections and  
315 approved the opinions to be finalised and sent to Risk Managers.

316

### 317 **16. Feedback on Committee Papers**

318 The Secretariat prepared two cover papers in a new style, after carrying out a  
319 thorough search of the dossier to identify any potential risks and causes for concern



320 and point these out to members. The Committee provided very positive feedback on  
321 the new paper style, which will be adopted by the Secretariat for future meetings.

322

323 **18. Any Other Business**

324 The new dates for Committee meetings from September to December 2023 were  
325 confirmed to be September 15<sup>th</sup>, October 31<sup>st</sup> and December 14<sup>th</sup>.

326

327

328 **Next ACAF meeting: Thursday 8<sup>th</sup> June 2023 in Clive House, London.**