

1 **Draft guidance on the scientific requirements for a**
2 **notification and application for authorisation of traditional**
3 **foods from third countries in the context of Regulation (EU)**
4 **2015/2283**

5 EFSA Panel on Nutrition, Novel Foods and Food Allergens (NDA)
6

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7
8 **Abstract**

9 The European Commission requested EFSA to update the scientific guidance for the preparation of
10 notifications for authorisation of traditional foods, previously developed following the adoption of
11 Regulation (EU) 2015/2283 on novel foods. This guidance document provides advice on the scientific
12 information needed to be provided by applicants when submitting traditional food notifications pursuant
13 to Article 14 and traditional food applications pursuant to Article 16 of Regulation (EU) 2015/2283. The
14 safety of a traditional food should be substantiated by data on its composition, its experience of continued
15 use and its proposed conditions of use. Its normal consumption should not be nutritionally disadvantageous.
16 The applicant should integrate the information on the composition and the experience of continued use
17 and provide a concise overall consideration on how this substantiates the history of safe use of the
18 traditional food and how this relates to the proposed conditions of use for the EU. Where potential health
19 hazards have been identified on the basis of the composition and/or data from the experience of continued
20 use, they should be discussed. On the basis of the information provided, EFSA will assess the safety related
21 to the consumption of the traditional food under the proposed conditions of use.

22 **Keywords**

23 EFSA guidance, novel foods, traditional foods, third country, primary production, safety

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35 Table of Contents

36	Abstract.....	1
37	Keywords.....	1
38	Background as provided by the European Commission in 2015 (not for comments).....	5
39	Terms of Reference as provided by the European Commission in 2015 (not for comments).....	6
40	Background and Terms of Reference as provided by the European Commission in 2020 (not for comments).....	6
41	6
42	Background as provided by the European Commission in 2023 (not for comments).....	6
43	Terms of Reference as provided by the European Commission in 2023 (not for comments).....	7
44	Objectives	7
45	Scope.....	7
46	Definitions.....	8
47	General principles.....	9
48	Characterisation of the traditional food, technical and scientific data	10
49	1. Identity of the traditional food	10
50	1.1 Chemical substances (blue text unique for traditional foods)	11
51	1.2 Foods consisting of, isolated from or produced from microorganisms.....	12
52	1.3 Food consisting of, isolated from or produced from plants, macroscopic fungi and algae or their	
53	parts	13
54	1.4 Food consisting of, isolated from or produced from animals or their parts	13
55	1.5 Food consisting of, isolated from or produced from cell culture or tissue culture derived from	
56	animals, plants, fungi or algae	14
57	1.5.1 Foods consisting of, isolated from or produced from cell culture or tissue culture derived from	
58	animals.....	14
59	1.5.2 Foods consisting of, isolated from or produced from cell culture or tissue culture derived from	
60	plants, macroscopic fungi or algae	14
61	2. Production process (blue text unique for traditional foods).....	15
62	2.1 General provisions	15
63	2.2 Considerations for specific production process steps	16
64	2.3 Considerations for specific traditional food categories.....	17
65	2.4 Additional considerations	18
66	3. Compositional data (blue text unique for traditional foods)	18
67	3.1 General requirements.....	19
68	3.1.1 Analytical methods	19
69	3.1.2 Addressing compositional variability.....	19
70	3.1.3 Sampling practices	20
71	3.1.4 Compositional analytes (blue text unique for traditional foods)	20
72	3.2 Single substances and simple mixtures thereof	20

73	3.3	Complex mixtures and whole foods <i>(blue text unique for traditional foods)</i>	20
74	3.4	Stability	22
75	3.4.1	Impact of processing on the traditional food in the proposed-for-use matrices	23
76	4.	Specifications	23
77	5.	Data from experience of continued use of the traditional food in third countries <i>(this section is unique</i>	
78		<i>for traditional foods)</i>	24
79	5.1	Extent of use	25
80	5.2	Characteristics of the population group(s) of consumers	25
81	5.3	Role in the diet.....	25
82	5.4	Information on the handling and preparation of the traditional food.....	25
83	5.5	Precautions for the preparation and restrictions of use of the traditional food.....	26
84	5.6	Human data.....	26
85	5.7	Other information	26
86	6.	Proposed conditions of use for the EU market <i>(blue text unique for traditional foods)</i>	26
87	6.1	Target population	26
88	6.2	Proposed uses and use levels	27
89	6.3	Anticipated intake of the traditional food.....	28
90	6.4	Intended role in the	28
91	6.5	Precautions and restrictions of use	28
92	7.	Concluding remarks	28
93		References (to be included).....	29
94		Abbreviations (to be included)	29
95		Annexes.....	30
96		Annex A Identity-related requirements for foods consisting of, isolated from or produced from	
97		microorganisms.....	30
98		Annex B: Table of all input materials used in the manufacturing process of the traditional food	31
99		Annex B: Compositional data retrieved in peer-reviewed articles <i>(unique for traditional foods)</i>	31
100		Annex D: Information on the 'history of use of the traditional food' in a tabulated format <i>(unique for</i>	
101		<i>traditional foods)</i>	32

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104 Background as provided by the European Commission in 2015 (not for
105 comments)

106 On 25 November 2015, the European Parliament and the Council adopted the Regulation on novel
107 foods.¹

108 The Regulation requires that all applications for the authorisation of novel foods shall be submitted to
109 the Commission who may then request a risk assessment from the European Food Safety Authority
110 (EFSA). In assessing the safety of novel foods, EFSA shall, where appropriate, consider the following:

- 111 1) whether the food does not, on the basis of the scientific evidence available, pose a safety risk to
112 human health;
- 113 2) a novel food, which is intended to replace another food, does not differ from that food in such a
114 way that its normal consumption would be nutritionally disadvantageous for the consumer.

115 The Regulation also introduces a special procedure for safety assessment for traditional foods from
116 third countries, based on a history of safe food use. In this case, a notification for the placing on the
117 market of a traditional food from a third country is sent to the Commission who forwards the valid
118 notification to all the Member States and EFSA. A Member State or EFSA may submit duly reasoned safety
119 objections on the placing on the market of the notified food. In this latter case, the Commission will not
120 authorise the placing on the market of the traditional food concerned. However, the applicant may
121 submit an application following the requirements of Article 16 of the Regulation on novel foods, for which
122 a safety evaluation will be requested from EFSA. In assessing the safety of novel foods, EFSA shall, where
123 appropriate, consider the following:

- 124 1) whether the history of safe food use in a third country is substantiated by reliable data submitted
125 by the applicant;
- 126 2) whether the composition of the food and the conditions of its use do not pose a safety risk to
127 human health in the Union;
- 128 3) where the traditional food from the third country is intended to replace another food, whether
129 it does not differ from that food in such a way that its normal consumption would be
130 nutritionally disadvantageous for the consumer.

131 The Commission also adopted implementing rules on administrative and scientific requirements for the
132 preparation and the presentation of the applications for novel foods², as well as for the notifications and
133 applications for traditional foods from third countries for the scientific assessment³, respectively, in

¹ Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001. OJ L 327, 11.12.2015, p. 1–22.

² Commission Implementing Regulation (EU) 2017/2469 of 20 December 2017 laying down administrative and scientific requirements for applications referred to in Article 10 of Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 64).

³ Commission Implementing Regulation (EU) 2017/2468 of 20 December 2017 laying down administrative and scientific requirements concerning traditional foods from third countries in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 55).

134 accordance with Article 13 and Article 20 of the Regulation. These implementing measures are supported
135 by scientific and technical guidance regarding the information that needs to be submitted by the
136 applicants by the present guidance and the guidance on novel foods.

137 Terms of Reference as provided by the European Commission in 2015 (not 138 for comments)

139 In accordance with Article 29 of Regulation (EC) No 178/2002, the European Commission asks EFSA to
140 update and develop scientific and technical guidance for the preparation and presentation of
141 applications for authorisation of novel foods, and to develop scientific and technical guidance for
142 notifications and applications for authorisation of traditional foods from third countries.

143 Background and Terms of Reference as provided by the European 144 Commission in 2020 (not for comments)

145 The European Commission asked EFSA to update the “Guidance on the preparation and submission of
146 the notification and application for authorisation of traditional foods from third countries in the context
147 of Regulation (EU) 2015/2283”⁴ in order to align it to Regulation (EU) 2019/1381 on the transparency
148 and sustainability of the EU risk assessment in the food chain⁵ (hereinafter “Transparency Regulation”),
149 which applies as of 27 March 2021.

150 The revision concerned only the administrative part concerning certain obligation on the part of the
151 applicant and did not involve a request for an update on the scientific content.

152 Background as provided by the European Commission in 2023 (not for 153 comments)

154 Following the adoption of Regulation (EU) 2015/2283 on novel foods, the Commission asked EFSA to
155 develop scientific and technical guidance for notifications and applications for authorisation of
156 traditional foods from third countries. EFSA adopted its guidance document on the preparation and
157 presentation of the notification and application for authorisation of traditional foods from third countries
158 in the context of Regulation (EU) 2015/2283 on 22 September 2016.

159 The EFSA guidance document identified the essential safety elements that need to be part of traditional
160 food notifications and applications pursuant to Articles 14 and 16, respectively, of Regulation (EU)
161 2015/2283 to support their safety, and served as the basis for the implementation of Commission
162 Implementing Regulation (EU) 2017/2468. As this Regulation came into effect after the EFSA guidance
163 was developed and implemented, there is a need to ensure full consistency between Regulation (EU)

⁴ <http://www.efsa.europa.eu/en/efsajournal/pub/4594>

⁵ Regulation (EU) 2019/1381 of the European Parliament and of the Council of 20 June 2019 on the transparency and sustainability of the EU risk assessment in the food chain and amending Regulations (EC) No 178/2002, (EC) No 1829/2003, (EC) No 1831/2003, (EC) No 2065/2003, (EC) No 1935/2004, (EC) No 1331/2008, (EC) No 1107/2009, (EU) 2015/2283 and Directive 2001/18/EC (OJ L 231, 6.9.2019, p. 1).

164 2015/2283 and Implementing Regulation (EU) 2017/2468 to better assist and support applicants in the
165 preparation of notifications/applications of traditional foods from third countries. In addition, since the
166 start of its implementation on 1 January 2018 when Regulation (EU) 2015/2283 came into effect
167 considerable experience has been gained by EFSA in assessing traditional foods from third countries.
168 Given the above, there is a need to update the EFSA guidance document on traditional foods from third
169 countries to the state of the regulatory and scientific part so it can better serve its intended purpose to
170 assist applicants in the preparation of notifications/applications of traditional foods from third countries,
171 and the Member States and EFSA to evaluate and conclude on their safety.

172 Terms of Reference as provided by the European Commission in 2023 (not 173 for comments)

174 In accordance with Article 31 of Regulation (EC) No 178/2002, the European Commission asks the
175 European Food Safety Authority to update the guidance document for notifications and applications for
176 authorisation of traditional foods from third countries.

177 Objectives

178 This guidance is intended to explain the type and quality of scientific information EFSA needs to conclude
179 whether or not the traditional food is safe under the proposed conditions of use. The scientific
180 requirements for an application for a novel food are dealt with by a separate guidance document by the
181 EFSA NDA Panel (EFSA NDA Panel, 2021).

182 The guidance will be kept under review and it will be further updated as appropriate in the light of
183 experience gained from the evaluation of traditional foods from third countries or under any legal
184 revision.

185 Scope

186 The guidance presented in this document is provided to assist applicants with the scientific
187 requirements in preparing and submitting notifications for authorisation of traditional foods from third
188 countries which fall under Article 14 of Regulation (EU) 2015/2283. This guidance is also applicable to
189 applications for the authorisation of traditional foods from third countries under Article 16 of Regulation
190 (EU) 2015/2283 concerning the data on the history of safe use in a third country. Where Article 16
191 applications under Regulation (EU) 2015/2283 concern data other than the history of safe use in a third
192 country, applicants are referred to the guidance on the preparation and presentation of an application
193 for authorisation of a novel food (EFSA NDA Panel, 2021).

194 Procedural aspects linked to the submission of a notification and application for authorisation of a
195 traditional food in the context of Regulation (EU) 2015/2283 are not in the scope of this guidance
196 document. Instead, applicants are advised to consult the EFSA Administrative guidance for the
197 preparation of notifications/applications on traditional foods from third country pursuant to Article 14 of
198 Regulation (EU) 2015/2283 (add reference), the EFSA Administrative guidance for the processing of

199 applications for regulated products (EFSA, 2021b), and the EFSA Catalogue of support initiatives during
200 the life-cycle of applications for regulated products (EFSA, 2021d).

201 Definitions

202 As per Article 3, paragraph 2 of Regulation (EU) 2015/2283 the following definitions apply:

203 a) 'Novel food' means any food that was not used for human consumption to a significant degree
204 within the Union before 15 May 1997 irrespective of the dates of accession of the Member States
205 to the Union. In the context of a traditional food from a third country, the following novel foods
206 categories may apply:

207 ii. food consisting of, isolated from or produced from microorganisms, fungi or algae;

208 iv. food consisting of, isolated from or produced from plants or their parts, except when the
209 food has a history of safe food use within the Union and is consisting of, isolated from or
210 produced from a plant or a variety of the same species obtained by:

211 - traditional propagating practices which have been used for food production within the
212 Union before 15 May 1997; or

213 - non-traditional propagating practices which have not been used for food production
214 within the Union before 15 May 1997, where those practices do not give rise to significant
215 changes in the composition or structure of the food affecting its nutritional value,
216 metabolism or level of undesirable substances;

217 v. food consisting of, isolated from or produced from animals or their parts, except for
218 animals obtained by traditional breeding practices which have been used for food
219 production within the Union before 15 May 1997 and the food from those animals has
220 a history of safe food use within the Union;

221 vi. food consisting of, isolated from or produced from cell culture or tissue culture derived
222 from animals, plants, microorganisms, fungi or algae;

223 b) 'History of safe food use in a third country' means that the safety of the food in question has been
224 confirmed with compositional data and from experience of continued use for at least 25 years in
225 the customary diet of a significant number of people in at least one third country, prior to a
226 notification referred to in Article 14;

227 c) 'Traditional food from a third country' means novel food as defined in point (a) of this paragraph,
228 other than novel food as referred to in points (a) (i), (iii), (vii), (viii), (ix) and (x) thereof which is
229 derived from primary production⁶ as defined in point 17 of Article 3 of Regulation (EC) No
230 178/2002 with a history of safe food use in a third country.

⁶ Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001. OJ 327, 11.12.2015, p. 1-22.

231 General principles

- 232 1) For information on the traditional food notifications procedure, applicants are recommended to
233 consult the EFSA Administrative guidance for the preparation of notifications traditional foods from
234 third countries pursuant to Article 14 of Regulation 2015/2283⁷ (EFSA,2021a). The administrative
235 guidance provides also a full description of the requirements introduced by the Transparency
236 Regulation such as the notification of studies obligations (Article 32b of the General Food Law), the
237 possibility to request a General Pre-submission advice (Article 32a of the General Food Law) and
238 provisions of transparency and confidentiality (Article 39 of the General Food Law).
- 239 2) Several EFSA scientific guidance documents may also be of relevance for the preparation of traditional
240 food notifications/applications, especially those of the EFSA Scientific Committee⁸. Some of them
241 are listed throughout the present document. Some EFSA guidance documents may be applicable
242 only in specific cases. Over time, new guidance documents may be developed which may be of
243 relevance for traditional food notifications/applications. Applicants are therefore advised to consult
244 the EFSA webpage and consider the most up-to-date versions of the available and applicable
245 guidance documents.
- 246 3) The term ‘notification’ means a stand-alone dossier containing the information and the scientific
247 data submitted under Article 14 of Regulation (EU) 2015/2283. It includes information on the
248 history of safe use in a third country submitted for the safety assessment of the traditional food
249 from third countries. The term ‘application’ means a stand-alone dossier containing the information
250 and the scientific data submitted under Article 16 of Regulation (EU) 2015/2283. It contains data
251 submitted in the notification for the safety assessment of the traditional food from third countries
252 (article 14 of Regulation 2015/2283), including the applicant’s response to duly reasoned safety
253 objections which were raised by EFSA and/or Member States during the evaluation of the
254 notification submitted under Article 14 of Regulation 2015/2283. Hereafter, the term ‘dossier’ is
255 used to denote notifications and applications.
- 256 4) As outlined in Regulation 2015/2283, the safety of a traditional food should be substantiated by
257 reliable data on its composition and its experience of continued use for a period of at least 25 years
258 in the customary diet of a significant number of people in at least one third country (i.e. ‘history of
259 safe food use in a third country’), and its proposed conditions of use. Besides, its normal
260 consumption should not be nutritionally disadvantageous. According to the Regulation, also the
261 specifications of the traditional food and conditions of use must be provided. The structure of the
262 dossier should follow the sections presented in this guidance.
- 263 5) Data pertinent to the safety of the traditional food must be identified and documented in order to
264 demonstrate that the notification covers the complete information package available on the

⁷ <https://www.efsa.europa.eu/en/supporting/pub/en-6488>

⁸ [https://efsa.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)1831-4732.GUIDANCE](https://efsa.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1831-4732.GUIDANCE)

265 traditional food. Information on the search strategy, including the sources used to retrieve
266 pertinent data (databases, other sources), the terms and limits used (e.g. publication dates,
267 publication types, languages, population, default tags) should be provided. Where applicable, the
268 published literature is to be reviewed taking into account systematic review principles (EFSA, 2010).
269 Full study reports should be provided if available.

270 6) The applicant should provide their considerations at the end of individual sections on how the
271 information supports the safety of the traditional food under the proposed conditions of use.
272 Uncertainties must be addressed, and a critical appraisal of data both in favour and not in favour,
273 of the safety of the traditional food is to be provided.

274 7) Deviations from the requirements specified in the respective sections of this guidance document
275 must be justified.

276 8) Analyses/tests characterising the traditional food should be performed in a facility qualified for this
277 purpose. Quality systems in place for control/documentation have to be indicated. Information on
278 the accreditation of involved facilities and certificates of analyses should be provided. Whenever
279 official guidelines (e.g. OECD, EMA and ICH) and quality systems (e.g. GLP, GMP, GCP and applicable
280 ISO systems) were followed, the applicant should indicate compliance.

281 9) Referring to Directive 2010/63/EU⁹, Regulation (EU) 2015/2283 emphasizes the 3 R's, i.e. replacing,
282 reducing, refining animal studies. This goal to reduce animal studies to the minimum needed is also
283 in line with the EU's chemicals strategy for sustainability and EFSA's Strategy 2027 to develop and
284 integrate new scientific developments focusing on NAM¹⁰-based methods and the minimisation of
285 animal testing.

286 Characterisation of the traditional food, technical and scientific data

287 The full characterisation of the traditional food under assessment is a key element of the risk assessment.
288 It allows for the identification and characterisation of hazards associated with the traditional food, and it
289 provides the basis for the characterisation of the potential risk posed to consumers from the consumption
290 of the given traditional food under the proposed conditions of use.

291 1. Identity of the traditional food

292 Information on the identity of the traditional food must be provided considering the requirements
293 outlined in the subsections listed below. There may be cases where two or more subsections could be of
294 relevance to a traditional food. In those circumstances, the respective information for all relevant
295 subsections should be provided. The subsections below are to be distinguished from the categories

⁹ Directive 2010/63/EU of the European Parliament and of the Council of 22 September 2010 on the protection of animals used for scientific purposes, OJ L 276, 20.10.2010, p. 33.

¹⁰ In vitro, in silico and in chemico approaches are often referred to as New Approach Methodologies or NAMs

296 outlined in Article 3 of Regulation (EU) 2283/2015, to which the applicant must assign their traditional
297 food upon submission of the dossier.

298 The name of the traditional food in the notification submitted has to reflect its characteristic
299 elements, e.g., its source, the main part(s) of organisms used, specific elements of the production
300 process, and must bear no nutrition or health claims according to Regulation (EU) 2015/2283¹¹.
301 Commercial names are to be avoided; scientific names according to the most recent taxonomy or
302 scientific nomenclature are to be included.

303 1.1 Chemical substances *(blue text unique for traditional foods)*

304 This section concerns traditional foods which fall under one of the categories covered by sections 1.2–1.5,
305 and are derived from primary production and not from chemical synthesis. In such instances, the
306 traditional food has been processed to consist of or to contain (a) substance(s) of higher purity or (a)
307 substance(s) of particular interest. The requirements to be addressed in these sections relate to those
308 specific pure substance(s) in the traditional food.

309 The following information must be provided for traditional foods that are single chemical substances, and
310 for each component when the traditional food is a simple mixture

- 311 • Chemical name, when appropriate, according to IUPAC nomenclature rules;
- 312 • CAS number, European Community (EC) Number - European Chemicals Agency (ECHA) and other
313 relevant identification numbers (e.g. PubChem, E numbers, ChEBI, ChEMBL, Flavis, HMDB/FooDB,
314 Lipidmaps, ChemSpider, IUBMB number);
- 315 • Synonyms or common names, trade names, abbreviations;
- 316 • Molecular and structural formulae with stereochemistry;
- 317 • Molar mass (g/mol) / Molecular mass (Da);
- 318 • InChI (International Chemical Identifier) and InChIkey (digital representation of the InChI);
- 319 • SMILES Canonical and SMILES Isometric;
- 320 • Identity tests of the relevant constituents should be performed with the most relevant analytical
321 techniques (e.g., chromatography, nuclear magnetic resonance, mass spectrometry, FT-IR, UV,
322 optical rotation in the case of chiral compounds).
- 323 • Particle size, shape and distribution if particles are present in the final product¹²;
- 324 • Comparison with chemical standards, certified reference material, authentic biological
325 specimens, naturally occurring compound or other relevant material.

¹¹ Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001

¹² Applicable when (EFSA Scientific Committee, 2021a) applies.

326 1.2 Foods consisting of, isolated from or produced from microorganisms

327 The scientific requirements for the taxonomic and hazard identification of microorganisms intentionally
328 used in the food chain (including bacteria, yeasts, filamentous fungi and microalgae/protists) depend on
329 the particular role of the microorganism and the qualified presumption of safety (QPS) status.

330 In the context of traditional foods, microorganisms can have different roles:

- 331 • as traditional food itself, i.e., traditional foods consisting of viable cells (active agents) or non-
332 viable cells (biomasses);
- 333 • used in the production of traditional foods, e.g., traditional foods isolated from or produced from
334 microorganisms (production strains).

335 The EFSA QPS provides a safety pre-assessment of microbial strains belonging to QPS taxonomic units
336 (TUs). The lowest TU for which the QPS status is granted is the species level for bacteria, yeasts and
337 microalgae/protists. Only unambiguously identified microbial strains belonging to QPS TUs can benefit
338 from the risk assessment approach based on QPS. Safety concerns related to a QPS TU are reflected, when
339 possible, as 'qualifications', which should be tested at strain and/or product level.

340 Overall scientific requirements for the taxonomic and hazard identification of microorganisms as
341 traditional foods or used in the production of traditional foods are listed below (detailed description in
342 Annex A), including references to relevant EFSA guidance documents for additional information:

- 343 • Unambiguous taxonomic identification at species level and certificate of deposition (including
344 accession number) in an internationally recognised culture collection having acquired the status
345 of International Depository Authority under the Budapest Treaty (EFSA FEEDAP Panel, 2018; EFSA,
346 2021e);
- 347 • Characterisation of genes of potential concern, i.e., acquired antimicrobial resistance (AMR)
348 genes, toxigenicity and pathogenicity traits (EFSA FEEDAP Panel, 2018; EFSA, 2021e; EFSA BIOHAZ
349 Panel, 2023a);
- 350 • Assessment of the capacity of the microbial strain to produce antimicrobial compounds unless a
351 QPS TU or a TU known not to produce antimicrobials of clinical relevance for use in humans and
352 animals (EFSA FEEDAP Panel, 2018);
- 353 • Whole genome sequence (WGS) data according to the 'EFSA statement on the requirements for
354 WGS analysis of microorganisms intentionally used in the food chain' (EFSA, 2021e).

355 Additionally, the presence of viable cells in the traditional food has to be tested in the case of i) biomasses
356 as traditional foods, ii) QPS TUs with the qualification 'for production purposes only', and iii) non-QPS
357 production strains (EFSA FEEDAP Panel, 2018).

358 The presence of DNA from the production strain in the traditional food has to be tested for production
359 strains harbouring acquired AMR genes (additional requirements in section 2.1.3 of EFSA FEEDAP Panel,
360 2018).

361 Moreover, any relevant EFSA guidance document regarding the risk assessment of microorganisms
362 available at the time of submitting the traditional food notification should be considered. Adherence to
363 the most recent applicable requirements throughout the process is requested.

364 1.3 Food consisting of, isolated from or produced from plants, macroscopic fungi and
365 algae or their parts¹³

366 The following information must be provided in the case of traditional foods consisting of, isolated from or
367 produced from plants¹⁴, macroscopic fungi and algae or their parts. In case of a mixture of source material,
368 the information is to be reported for each source organism and the percentages of each source in the
369 mixture must be specified.

- 370 • Scientific (Latin) name and taxonomy (family, genus, species, and if applicable subspecies, variety
371 with author's name, chemotype, strain) according to the international codes of nomenclature for
372 plants¹⁵ and for macroscopic fungi and algae¹⁶;
- 373 • Accepted synonyms;
- 374 • Trivial or common names used to identify the traditional food intended to be marketed;
- 375 • For plants, experimental verification of the identity of the plant (e.g., authentic plant specimen
376 deposit in a recognised herbarium, macroscopic/microscopic verification with comparison to an
377 authentic standard, chemical fingerprint compared to standard, DNA-based authentication);
- 378 • For macroscopic fungi and algae, verification of the identity according to internationally
379 recognised databases and methodology and, if available, deposition in an internationally
380 recognised culture collection with access number;
- 381 • Part(s) used;
- 382 • Growing region(s) of the source organism (continent, country, region) and, when relevant, season
383 of harvesting;
- 384 • Growing conditions to produce the source organism (i.e., cultivated or from the wild, conditions of
385 cultivation);
- 386 • Non-GMO statement.

388 1.4 Food consisting of, isolated from or produced from animals or their parts

389 The following information is to be provided for traditional foods isolated from or produced from animals
390 or their parts:

- 391 • Scientific (Latin) name (family, genus, species, subspecies, breed, if applicable);
- 392 • Accepted synonyms;
- 393 • Trivial or common names used to identify the traditional food intended to be marketed;
- 394 • Verification of the identity (e.g., DNA-based authentication);

¹³ These requirements are in line with the EFSA Scientific Committee guidance on the safety assessment of botanicals and botanical preparations intended for use as ingredients in food supplements (EFSA Scientific Committee, 2009).

¹⁴ These requirements are in line with the EFSA Scientific Committee guidance on the safety assessment of botanicals and botanical preparations intended for use as ingredients in food supplements (EFSA Scientific Committee, 2009).

¹⁵ Plants of the World Online (<https://powo.science.kew.org/>) facilitated by the Royal Botanic Gardens, Kew; The USDA-ARS Germplasm Resources Information Network (GRIN) database (<https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysimple.aspx>) in case Plants of the World Online does not provide the required information; The International Plant Names Index (<http://www.ipni.org/>) in case the two above sources do not provide the required information.

¹⁶ Mycobank (www.mycobank.org), Index fungorum (<https://www.indexfungorum.org>), Catalogue of Life (CoL), Integrated Taxonomic Information System (ITIS), Global Biodiversity Information Facility (GBIF), Encyclopedia of Life (EOL)

- 395 • Suitability of the animal sources for human consumption according to Regulation (EU) No
- 396 2015/1162¹⁷;
- 397 • Health status of the source animal, age, access to herd/lot health certification;
- 398 • Part(s) used (e.g., organ(s) or tissue(s));
- 399 • Geographical origin (continent, country, region), farming and husbandry conditions;
- 400 • Origin of the initial livestock (e.g., national repository). In case the source of the traditional food
- 401 is provided by external vendors, supporting documents should be provided;
- 402 • Non-GMO statement.

403 1.5 Food consisting of, isolated from or produced from cell culture or tissue culture

404 derived from animals, plants, fungi or algae

405 This section concerns cell/tissue cultures derived from multicellular origin (animals, plants including

406 macroscopic fungi, and algae). For foods consisting of, isolated from, or produced from cell cultures

407 derived from microorganisms (including bacteria, yeasts, filamentous fungi and microalgae/protists)

408 reference is made to the scientific requirements laid down in section 1.2. The traditional foods defined

409 under this category can be the harvested cells, the biomass or the further processed biomass obtained

410 from cell or tissue culture.

411 1.5.1 Foods consisting of, isolated from or produced from cell culture or tissue culture derived

412 from animals

- 413 • Identity of the source organism as per the relevant requirements in section 1.4;
- 414 • When using established cell lines: genetic and phenotypic identity and stability of cells;
- 415 • When using primary cells: biopsy location or source material, cell type(s) isolated, genetic, and
- 416 phenotypic identity of cells;
- 417 • Information to attest that the animal cells and tissues used for the preparation of the traditional
- 418 food comply with inspection requirements;
- 419 • Information to attest the absence of any risks of infectivity from viruses or other zoonotic agents
- 420 e.g., testing for viruses (species-specific viruses), testing for prions in the case of limited health
- 421 information on source animals.

422 1.5.2 Foods consisting of, isolated from or produced from cell culture or tissue culture derived

423 from plants, macroscopic fungi or algae

- 424 • Identity of the source organism as per the relevant requirements in section 1.3;
- 425 • Laboratory or culture collection sourced;
- 426 • Identity of the cells or cell lines: part(s) of the organism sourced, cell type isolated, genetic, and
- 427 phenotypic identity, genetic and phenotypic stability of the cell lines.
- 428

¹⁷ Commission Regulation (EU) 2015/1162 of 15 July 2015 amending Annex V to Regulation (EC) No 999/2001 of the European Parliament and of the Council laying down rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies.

429 2. Production process *(blue text unique for traditional foods)*

430 The process(es) employed to produce the traditional food should be thoroughly and completely
431 described. The description of the production process must be detailed enough to provide the information
432 that will form the basis for the evaluation of the composition, bioavailability, nutritional value and safety.

433 The applicant should describe how the traditional food was or is being traditionally produced in the
434 third country (i.e. steps and conditions applied). The applicant should document with published and/or
435 unpublished information the traditional production process(es).

436 Since the assessment of traditional food as intended to be marketed in the EU gives substantial weight
437 to the 'history of consumption' of the traditional food, the production process(es) used to produce the
438 traditional food should be essentially the same as the traditional production process(es) used in the
439 concerned third country(ies). EFSA acknowledges that the production process(es) of the traditional food
440 as intended to be placed on the EU market might differ from the traditional way of production. Where
441 deviations from the traditional manufacturing occur, the applicant should identify such changes and
442 describe the process(es) actually to be applied to produce the traditional food (e.g. cultivation,
443 harvesting, roasting, extraction, fermentation or isolation from a natural source, etc.) following the
444 requirements outlined below. In such cases, the applicant should assess whether and document how
445 these changes may impact the composition, nutritional value and safety of the traditional food.

446 2.1 General provisions

447 Information on all input materials used in the manufacturing process of the traditional food should be
448 presented in a tabulated format, including their functional role, and their regulatory status in the EU
449 (Annex B). Additionally, information on the specification and quality of the input/raw materials and
450 fermentation aids has to be provided¹⁸. Moreover, every material in contact with food during the
451 production process (e.g., plastic containers) should comply with Regulation (EC) No 1935/2004¹⁹ and a
452 declaration of compliance with this regulation or any other relevant legal document with regards to food
453 contact material, should be provided. Considering all steps during the production process, the production
454 yield, i.e., the resulting amount of a traditional food from its raw materials, should be calculated,
455 providing also the 'processing factors'²⁰, when applicable. Regarding safety, the description has to
456 include information on potential by-products, impurities, or contaminants. Formation of processing
457 contaminants should be also considered based on the processes applied and a description of the
458 parameters that may lead to the formation of a given processing contaminant should be included.

459 Operational limits and key parameters of the production process should be given. Measures
460 implemented for production control and quality and safety assurance should be described (e.g., HACCP,
461 GMP, ISO). The implementation of food safety management systems in place to produce the traditional

¹⁸ Quality of the input material can be proven for commercial products by the certificates of analysis of the purchased products or by specifications for non-commercial products and certificates of analysis that prove the product complies with specifications

¹⁹ Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC, OJ L 338 13.11.2004, p. 4

²⁰ The ratio of the concentration of a chemical substance in a product to the concentration of the same substance in the starting material (the source)

462 foods should cover procedures based on the HACCP principles in line with Regulation (EC) No 852/2004
463 on the hygiene of foodstuffs²¹. These procedures should be detailed, including critical control points,
464 operational prerequisite programmes, monitored parameters, corrective actions, verification
465 procedures, frequency of analysis, analytical methods, etc. A production flow chart should be provided,
466 including quality and safety control checks. If applicable, standardisation criteria (e.g., chemical markers
467 for the traditional food) should be provided.

468 2.2 Considerations for specific production process steps

469 Information must also be provided on the handling of the sources, for example, the propagation, growth
470 and harvesting conditions for plants and fungi (e.g., wild or cultivated, type of cultivation and cultivation
471 practices, composition of fertilisers used, time of harvest in relation to both season and stage of the plant
472 growth); the cultivation conditions for aquacultures (e.g., measures in place to ensure water quality,
473 temperature, length of growth in the water, composition of fertilisers used); the breeding, rearing,
474 feeding and farming conditions along with the description of feed and certificates of feed compliance
475 with EU Regulations for farmed animals or the hunting, catching or collecting and killing of wild living
476 animals; the culture conditions for microorganisms and algae, and cell culture or tissue culture from
477 plants and animals. The parts of the organism used as a raw material must be specified and information
478 on other starting substances or materials should be provided. The description of the cultivation of plants,
479 fungi, algae and microorganisms and the rearing of animals should also include information on the use
480 of pesticides, hormones, veterinary drugs, antimicrobials and antiparasitic agents or feed additives.
481 Biological agents (e.g., parasites, bacteria, endophytes, viruses, prions) that can infect organisms or
482 tissue cultures used to produce the traditional food or be hosted by these organisms (animals, plants,
483 fungi, algae and microorganisms) should be considered in the assessment. Information and measures in
484 place to mitigate the respective risks should be provided and the impact of these agents to human health
485 should be discussed.

486 Post-harvest handling, e.g., transport, drying techniques and storage conditions (duration, light,
487 moisture, and temperature) of unprocessed foods and the raw materials for further processing should
488 be described.

489 In cases when food enzymes of microbial origin are used as processing aids for the production of a
490 traditional food, the processes and operational conditions in place for the inactivation/removal of these
491 enzymes are to be provided and the presence or absence of these enzymes in the traditional food has to
492 be demonstrated experimentally along with their enzymatic activity, if present (EFSA CEP Panel, 2021).
493 The safety of the food enzyme(s) used in the manufacture of the traditional food is subject to the
494 provisions of Regulation (EC) No 1332/2008²² and therefore, it is outside the scope of this guidance, which
495 concerns the assessment of the safety of the traditional food according to the provisions of Regulation
496 (EU) 2015/2283. Therefore, the applicant is requested to provide information about the status of the
497 enzyme(s) according to Regulation (EC) No 1332/2008. Food enzymes used in the production of traditional
498 food should preferably have been already assessed with a positive outcome by the EFSA Panel on Food

²¹ Regulation (EC) No 852/2004 of the European parliament and of the council of 29 April 2004 on the hygiene of foodstuffs, OJ L 139 30.4.2004, p. 1

²² Regulation (EC) No 1332/2008 of the European Parliament and of the Council of 16 December 2008 on food enzymes and amending Council Directive 83/417/EEC, Council Regulation (EC) No 1493/1999, Directive 2000/13/EC, Council Directive 2001/112/EC and Regulation (EC) No 258/97. OJ L 354, 31.12.2008, p.7

499 Contact Materials, Enzymes and Processing Aids (EFSA CEP Panel). In case the food enzymes have not
500 been assessed or the risk assessment is still in progress, additional data on the microorganisms used to
501 produce the food enzymes could be requested to establish the safety of the traditional food, in line with
502 the scientific criteria outlined in relevant EFSA guidance documents (EFSA FEEDAP Panel, 2018; EFSA,
503 2021e). The assessment of the traditional food will be without prejudice to the safety assessment of the
504 food enzyme per se.

505 2.3 Considerations for specific traditional food categories

506 For traditional foods consisting of, isolated from or produced from plants, fungi, algae or animals, a
507 detailed description of the process(es) by which the raw material is converted into an ingredient or a
508 food product, must be provided. Examples may include e.g., heat treatment, extraction, distillation,
509 fractionation, purification, concentration, fermentation, or other procedure(s). Information on
510 substances used in the manufacturing process, e.g., identity and purity of the extraction solvents, ratio
511 of extraction solvent to the material, reagents, additives, residues remaining in the final product and any
512 special precautions (e.g., protection from light and controlled temperature) should be provided.

513 Regarding production processes employing microorganisms, the techniques used to remove/inactivate
514 microbial cells during downstream processing should be described in detail, with full provision of
515 operational conditions (e.g., time, temperature, kinetics, etc.). In case of a traditional food consisting of
516 viable cells, information on the techniques/methods and operational conditions used to ensure microbial
517 viability must also be reported. The applicant should investigate, and report whether the specific
518 production conditions of the traditional food (e.g., due to processing aids or component of the media)
519 may trigger the formation of toxic compounds by microorganisms.

520 For foods consisting of, isolated from, or produced from cell culture or tissue culture, information is to
521 be provided on the type of cells used as source (e.g., primary cells or established cell lines). In case that
522 primary cells are used, information on the source, purification steps, cell isolation, cell selection, cell
523 subculture, absence of pathogens, and overall sterility of the process is to be provided. If cells from
524 established cell lines are used, information must be provided on the source, the cell line preparation, the
525 cell banking process, as well as the passage number of aliquot of cells used. Description of any
526 modifications made to the cells used (e.g., selection, differentiation, immortalisation, adaptations,
527 reprogramming), and the link of such modifications with the production of substances of possible
528 concern must be included. All processes applied for the treatment, extraction, screening, and selection
529 of cell lines or tissues must be provided in detail including all chemicals and biological materials used,
530 and including the impurities that may result from their use. The genetic stability of the cells throughout
531 the production (e.g., karyotypes, whole genome sequencing) is to be demonstrated, by comparison of
532 the starting material and the cells at the end of the production process. Also changes of the morphology,
533 markers of differentiation and other phenotypic features of the cells at the start and at the end of the
534 production process should be investigated and described. Information on the compliance with Good Cell
535 Culture Practices²³ should be provided, as well as on the compliance with applicable relevant standards,
536 such as those outlined in the EMA Guidance document on the derivation and characterisation of cell

²³ <https://publications.jrc.ec.europa.eu/repository/handle/JRC59782>
https://www.oecd-ilibrary.org/environment/guidance-document-on-good-in-vitro-method-practices-givimp/good-cell-culture-practice-gccp_9789264304796-16-en

537 substrates used for production of biotechnological/biological products²⁴.

538 2.4 Additional considerations

539 In case the traditional food is manufactured by different producers/processes, consistency in production
540 methods among different producers/processes must be demonstrated and food safety management
541 systems (e.g., HACCP plan) should be provided from all producers/processes covering the entire
542 production process. The variability of the supplying starting materials is to be investigated and be
543 covered by the analytical data provided. Any changes to the production process that might occur during
544 the risk assessment must be duly notified to EFSA by the applicant. Moreover, as stipulated in Article 25
545 (a) of Regulation (EU) 2283/2015, changes occurring after the risk assessment and or after the eventual
546 authorisation of the traditional food that might impact its safety must be immediately notified to the EC.

547 3. Compositional data (*blue text unique for traditional foods*)

548 Compositional data serve as a tool to characterise the traditional food and its constituents, encompassing
549 both qualitative and quantitative information on the chemical, physicochemical, microbiological, and
550 nutritional attributes of the traditional food. They should facilitate an in-depth exploration of the
551 compositional characteristics of the traditional food, linked to its source and employed production
552 process. Variability of compositional data between different batches should be analysed and discussed,
553 towards investigating the ability of the food business operator to produce the traditional food in a
554 consistent and reproducible manner, while being the basis for hazard identification and establishment
555 of the specification parameters. Section 3.1 outlines the general data requirements applicable to all
556 traditional foods, while section 3.2 and section 3.3 set specific requirements, depending on whether the
557 traditional food is a single substance or a simple mixture, a complex mixture or a whole food.²⁵

558 The applicant should also provide compositional data from publications on the variability of the
559 traditional food, when available. The applicant should provide, in a tabulated format, the range of the
560 values of the parameters analysed in the batches of the traditional food, and those reported in the
561 retrieved publications. For the ranges presented in the table the publications from which they are taken
562 should be clearly indicated (Annex C).

563 In case changes have been introduced in the process employed to produce the traditional food
564 intended to be placed on the EU market as compared to the traditional production process, the applicant
565 should compare the compositional profile (including new substances potentially resulting from the
566 modification of the production process) of the traditional food produced with the applied production
567 process *versus* the traditional process. The applicant should discuss how the changes in the compositional
568 profile may impact the nutritional value and/or the safety of the traditional food.

569

²⁴ https://www.ema.europa.eu/en/documents/scientific-guideline/ich-q-5-d-derivation-characterisation-cell-substrates-used-production-biotechnological/biological-products-step-5_en.pdf

²⁵ as defined by the EFSA Scientific Committee (2011a)

570 3.1 General requirements

571 3.1.1 Analytical methods

572 Validated methods, preferably nationally or internationally recognised (e.g., Association of Official
573 Analytical Chemists, European Pharmacopoeia, International Organization for Standardization) should
574 be used for the analyses. The respective methods of analysis should be described alongside their
575 references. The limits of detection (LOD) and quantification (LOQ) should be mentioned. Certificates of
576 analyses, and information on the matrix accreditation²⁶ and the scope of accreditation of the laboratories
577 should be provided. If in-house methods are employed, the analytical protocols implemented should be
578 fully described, and the results of the respective method validation procedures should be provided. If an
579 analytical method is used for a food matrix beyond the scope²⁷ of accreditation / standardisation, it
580 should be treated as in-house method (the same applies in cases that standard methods are modified).
581 If the analyses are not performed in accredited laboratories, a justification should be provided. A table
582 with all the analytical methods employed and the corresponding analytes should be provided. The table
583 should include the name of the method, the reference, the main analytical technique(s) employed, as
584 well as the respective LOD and LOQ.

585 3.1.2 Addressing compositional variability

586 Compositional data and their variability should support the setting of specifications of the traditional
587 food²⁸ (section 4). The analytical information should be provided on at least five representative batches
588 of the traditional food that have been independently produced (i.e., with independent batches of raw
589 materials)²⁹. The examined batches should be sampled in a manner adequate to address potential
590 compositional variations (e.g., seasonal) of the raw materials. Additional batches of the traditional food
591 may also be needed to explore the variability of potentially harmful substances present in the traditional
592 food or its source. When several production processes are proposed, such data should be provided for
593 each process. Moreover, compositional data should also cover the whole variability spectrum of the
594 production process parameters (e.g., highest and lowest amount of solvents used, range of temperatures
595 applied). The compositional variability should be discussed, highlighting the reasons for the variation in
596 results.

597 Analytical data from publications can also be used if the publications provide sufficient information on
598 the laboratory where analyses have been carried out, the methods utilised, and if the studies were
599 performed with representative samples of the traditional food. Available published data can also
600 contribute to provide information on the variability of the composition of the traditional food.

²⁶ Matrix accreditation evaluates a laboratory's competence in accurately analyzing specific food samples, ensuring quality and reliability in testing diverse and complex matrices. Such accreditation is crucial as validated analytical methods for one product may not be applicable to other types of products.

²⁷ employed to analyse another type of food matrix

²⁸ As defined in [section 1](#)

²⁹ Batch as defined in Directive 2004/10/EC of the European Parliament and of the Council of 11 February 2004 on the harmonisation of laws, regulations and administrative provisions relating to the application of the principles of good laboratory practice and the verification of their applications for tests on chemical substances, OJ L 050, 20.2.2004, p.44

601 3.1.3 Sampling practices

602 Principles of representative sampling should be considered (e.g., sample size, containers, conditions),
603 and the rationale on why the employed sampling plan is considered representative should be provided.
604 Information on any relevant existing legally defined or standard sampling protocols should be considered
605 and provided. On each certificate of analysis, the name of the traditional food batch analysed, the date of
606 production and the date of analysis should be stated.

607 3.1.4 Compositional analytes *(blue text unique for traditional foods)*

608 Information on the identity and the quantity of impurities or by-products, residues and chemical and
609 microbiological contaminants should be provided (e.g., heavy metals, mycotoxins, PCBs/dioxins,
610 pesticides, microbial indicators and pathogens). The potential target analytes should be selected
611 considering the sources and the production process, regulatory levels as well as the information available
612 in the scientific literature. For example, for substances obtained by chemical synthesis, residual starting
613 materials and by-products anticipated from side-reactions should be analysed; for substances produced
614 by microbial fermentation, the presence of undesirable metabolites should be investigated; for
615 substances isolated by extraction, data on residual solvents should be provided.

616 If the publications retrieved by the applicant indicate the potential presence of substances of
617 toxicological concern (e.g. toxins, pathogens, antinutrients, contaminants) in the traditional food or its
618 source, the applicant should provide quantitative data on those substances in the batches of the
619 traditional food, obtained using internationally recognized/validated analytical methods.

620 Considering their nature and in order to avoid unnecessary testing, some categories of traditional
621 foods do not require a priori a nano-specific risk assessment, e.g., (i) microorganisms (e.g., bacteria,
622 yeasts, fungi), (ii) unmodified proteins (including enzymes) and amino acids, (iii) whole foods (e.g., seeds,
623 fruits, insects). Therefore, if the manufacturing process does not include any step that may lead to the
624 presence of small particles (e.g., spray-drying, micronisation, encapsulation, filtration), and if it can be
625 demonstrated that a traditional food falls under one of the above or similar categories, the traditional
626 food may qualify for exemption from the characterisation and/or demonstration of the absence of small
627 particles (as defined in the Guidance by the EFSA Scientific Committee (2021a)).

628 3.2 Single substances and simple mixtures thereof

629 Simple mixtures are mixtures whose components can be fully chemically characterised. For simple
630 mixtures of defined substances, information on the identities and the relative ratios of all components
631 should be provided. This should allow the elaboration of a mass balance. For single substances and
632 substances in simple mixtures, the identity-relevant analytical data outlined in section 1.1 should be
633 provided.

634 3.3 Complex mixtures and whole foods *(blue text unique for traditional foods)*

635 Complex mixtures (e.g., extracts, protein hydrolysates) and whole foods (e.g., milk, meat, fruits, seeds,
636 insects) are defined as those traditional foods where all constituents cannot be fully chemically
637 characterised and/or identified.

638 A qualitative and quantitative characterisation of the main constituents is to be performed, at least via

639 sum parameters. For whole foods, this should include proximate analyses (i.e., ash, moisture, protein, fat,
640 carbohydrates). On the basis of these data, a mass balance should be calculated. The amount of
641 unidentified components should be indicated and should be as low as possible.

642 For the classes of naturally or chemically derived components which characterise the traditional food
643 (e.g., amino acids, peptides, phospholipids, carotenoids, phenolics, sterols), comprehensive qualitative
644 and quantitative data should be provided.

645 Qualitative and quantitative data on nutritionally relevant inherent constituents such as micronutrients,
646 antinutrients, and dietary fibre³⁰ should be provided.

647 Taking into account the source of the traditional food, qualitative and quantitative data on inherent
648 substances of possible concern to human health (e.g., toxic, allergenic) should be provided. The impact
649 of processing on the compositional profile of the traditional food (e.g., occurrence of heat-induced
650 processing contaminants) should also be considered.

651 Whenever relevant (e.g. having an impact on safety or being potentially nutritionally
652 disadvantageous), the applicant should compare the content of constituents such as micronutrients,
653 antinutrients or substances of toxicological concern in the traditional food with the contents in foods
654 currently consumed in the EU. In such cases exposure estimates may be needed for the concerned
655 substance(s) coming from the traditional food and the comparator(s). Ideally but not necessarily, the
656 comparator should be a food that can reasonably reflect the anticipated consumption pattern of the
657 traditional food.

658 In addition to the batch-to-batch analysis, a literature search should be performed according to the
659 methodology developed by (EFSA, 2010) to retrieve published compositional data (chemical,
660 physicochemical, and microbiological) for the source and the part(s) used in/as traditional food, as well
661 as for compositional aspects related to the production process. Information on the used keywords and
662 applied inclusion/exclusion criteria for the literature search should be provided. Considering the
663 retrieved information, the applicant should provide a rationale on the compositional analysis strategy
664 followed.

665 Any substances of concern derived from starting materials (e.g. plants, algae, fungi) should be classified
666 according to their chemical structure. Particular attention should be given to the possible presence of
667 genotoxic and/or carcinogenic substances.

668 For plants, levels at which the constituents are present in the respective part of the botanical or botanical
669 preparation should be given where available. It is recommended that chemical fingerprinting of the
670 botanical material is undertaken for this purpose.

671 The following non-exhaustive list of tools can help identifying the possible substances of concern in a
672 botanical material:

- 673 • The EFSA Compendium of Botanicals^{31,32}, which provides information on naturally occurring
674 substances that may be of concern for human health (EFSA, 2012),

³⁰ “dietary fiber” in the context of this Guidance and in EFSA risk assessments of novel foods is understood as defined by EFSA NDA Panel, 2010, i.e. all non-digestible carbohydrates, and not as defined by Regulation (EU) 1169/2011, which sets the additional requirement of having a beneficial physiological effect for edible carbohydrate polymers obtained from food raw material by physical, enzymatic or chemical means, and for edible synthetic carbohydrate polymers.

³¹ <https://www.efsa.europa.eu/en/data/compendium-botanicals>

³² <https://comobdb.ecomole.com/report/>

675 • The EFSA Chemical Hazard Database (OpenFoodTox)³³.

676 The EFSA Scientific Committee has identified potential hazards related to the use of farmed insects as food
677 (EFSA Scientific Committee, 2015). These should be considered in notifications for traditional foods which
678 consist of, are isolated from, or are produced from farmed insects, considering the species and substrates
679 to be used, as well as methods for farming and processing.

680 For viable or non-viable microorganisms as traditional foods, the concentration of, respectively, viable
681 cells (e.g., by viable plate count) or non-viable cells (e.g., by flow cytometry or dry weight, in case of cell
682 wall/membrane integrity or not, respectively) in the traditional food should be reported.

683 3.4 Stability

684 The stability of the traditional food has to be evaluated to ensure both the compositional integrity and
685 the safety of the traditional food. Hazards that might arise during storage and transport must be
686 identified and the nature of degradation products should be characterised.

687 Stability tests should consider compositional qualifiers, as well as constituents and parameters of the
688 traditional food which may be susceptible to changes during storage and which may affect its safety
689 and/or its identity or serve as indicators for alterations that could have an impact on the safety and/or
690 the integrity of the traditional food. The rationale for the parameters selected to be monitored during
691 the stability testing, as well as for those parameters disregarded as not relevant, should be provided.

692 Depending on the nature, production process and composition of the traditional food, the testing is to
693 address the chemical, physicochemical, and microbiological stability of the traditional food under the
694 intended conditions of storage, taking into account the effect of packaging, and the storage
695 environmental parameters (temperature, light exposure, oxygen, moisture, relative humidity).
696 Information on the intended storage conditions of the traditional food must be provided as well as on
697 the conditions under which the stability testing was performed. The stability testing has to be provided
698 on at least five representative batches of the traditional food that have been independently produced
699 (i.e., with independent batches of raw materials). Testing of a lower number of batches is to be duly
700 supported by scientific arguments. The traditional food batches selected to be monitored at the
701 beginning of the stability testing have to be those monitored for the whole duration of the stability
702 testing. The stability testing results can be taken into consideration when establishing the limits of
703 relevant specification parameters. On the other hand, compliance of the traditional food with the
704 specification parameters throughout the proposed shelf-life should be demonstrated.

705 The monitoring period of the stability test has to cover at least the end of the proposed shelf-life.
706 Intermediate intervals of testing must be considered, depending on the nature of the traditional food,
707 its composition, as well as the intended shelf-life. Although it is advisable to submit stability testing
708 studies under intended conditions of storage, accelerated conditions may be used as an alternative. Such
709 approaches, usually conducted at higher temperature, are applicable in cases where chemical
710 parameters are monitored. The extrapolation of the results from accelerated conditions to intended
711 conditions of storage must be duly evidenced. Information on ingredients added to the traditional food
712 to improve its stability has to be provided.

³³ <https://www.efsa.europa.eu/en/microstrategy/openfoodtox>

713

714 3.4.1 Impact of processing on the traditional food in the proposed-for-use matrices

715 If the traditional food is used as an ingredient added to other foods the manufacture of which requires
716 further processing (e.g., heating), the impact on the traditional food of this processing is to be
717 investigated. Also alterations in the processed foods due to the presence of the traditional food should
718 be investigated in foods or in relevant model systems (mimicking the food matrix and the respective
719 processing conditions), taking also into consideration at least the extremes of the possible processing
720 conditions (e.g., highest temperature to which the traditional food will be exposed when used as a food
721 ingredient, lowest and highest pH) as resulting from the proposed uses (section 6.2). More specifically,
722 it should be investigated what happens to relevant components of the traditional food, when it is used
723 as a food ingredient. Interactions with other constituents in the processed foods and the formation of
724 processing contaminants should be investigated. The use of proper comparators (e.g., the product
725 manufactured with the same process/recipe without containing the traditional food as ingredient) is
726 necessary.

727 Moreover, when the traditional food is subject to further processing that differs from the conventionally
728 applied processing methods, any hazards potentially arising are to be identified and characterised.

729 4. Specifications

730 Specifications comprise chemical, physicochemical, nutritional, and microbiological parameters that
731 characterise and substantiate the identity and safety of the traditional food, including the respective
732 numerical ranges or limits.

733 Specifications serve as a tool for risk managers, i.e., the European Commission and Member States, who
734 decide which of the proposed specification parameters and respective limits will be considered for
735 inclusion and updating of the Union list of novel foods³⁴ in accordance with Article 9 of Regulation (EU)
736 2015/2283, when a traditional food is granted marketing authorisation. Given that risk managers may
737 consider not only compositional aspects, applicants should propose also a brief but comprehensive
738 description of the traditional food, incorporating identity parameters such as the name of the source or
739 relevant parts thereof, and the microbial strain used as traditional food or in the production of traditional
740 foods. It is also advisable to provide key descriptors related to the production process.

741 Applicants have to provide a comprehensive set of compositional specification parameters in a tabulated
742 format. Depending on the identity and composition of the traditional food, the table should include the
743 following:

- 744 • the major groups of constituents within the food,
- 745 • proximate analytes (protein, lipids, carbohydrates, ash, and moisture),
- 746 • more characteristic components (e.g., carotenoids, polyphenols, terpenes, alkenyl benzenes,
747 lignin, saponins, chitin, micronutrients, number of viable/non-viable microorganisms),

³⁴ Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods, OJ L 351, 30.12.2017, p. 72–201

- 748
- parameters relevant for the safety of the traditional food at the proposed uses and use levels, (e.g., toxins, alkaloids, phytic acid and other antinutrients, heavy metals, pathogens, impurities, or degradation products from the production process),
 - parameters related to the quality and/or stability that may have an impact on the safety of the traditional food (e.g., markers of lipid oxidation, microbial hygiene indicators, or water activity).

752 The rationale for each proposed specification parameter and respective limits has to be provided.

754 The table must include minimum and/or maximum specification limits for each selected parameter. The specifications, including their limits, should be supported by the available information on the chemical, physicochemical and microbiological composition of the traditional food including the results from the available batch-to-batch analysis and the stability testing. They should be verifiable by means of the analytical techniques as indicated in section 3. Information on the employed analytical techniques and their sensitivity (LOD/LOQ) should be provided.

760 In general, the proposed maximum specification limits for undesirable substances should be as low as possible. Existing health-based guidance values (HBGV) for substances of potential toxicological concern, but also dietary reference values (DRV) including tolerable upper intake levels (UL) for micronutrients and exposure estimates to such compounds, should be considered when proposing the maximum specification limits. Minimum specification limits for nutrients may be necessary to ensure that a minimum level is present in the traditional food, especially when a traditional food represents a potential alternative or is intended to replace an existing food on the market, which provides a relevant contribution to the intake of certain nutrients. If EU regulatory limits are applicable for the traditional food, then they do not have to be necessarily listed in the specifications.

769 5. Data from experience of continued use of the traditional food in third 770 countries (*this section is unique for traditional foods*)

771 This section should provide all available data from the experience of continued use which are
772 pertinent to the safety assessment of the traditional food.

773 The supporting documentation on the experience of the continued food use should provide a
774 description of the extent of use of the traditional food, the population group for which the traditional
775 food has been a part of their diet, information on its preparation and handling, its role in the diet, and
776 the precautions consumers apply. A comprehensive literature review of human studies and reports
777 related to the consumption of the traditional food should be performed. Information on the search
778 strategy, including the sources used to retrieve pertinent data (databases, other sources), the terms and
779 limits used (e.g. publication dates, publication types, languages, population, default tags) should be
780 reported. The published literature should be reviewed by considering systematic review principles
781 indicated by EFSA (2010). When searching for 'grey-literature', EFSA's principles (2010) should also be
782 adhered to. Full study reports of human studies should be provided.

783 The type of references could include scientific publications, scientific expert opinions, monographs,
784 information from international or national organisations, governmental documentation, figures on

785 cultivation/harvesting, and sales and trade. Additional information may be provided from cookbooks,
786 recipes and anecdotal data.

787 The documentation provided should relate to the traditional food as it is intended to be placed on the
788 EU market.

789 The applicant should present the data supporting the experience of continued use of the traditional
790 food in third countries in a tabulated format (Annex D).

791 5.1 Extent of use

792 The applicant should characterise the extent of use of the traditional food by documenting:

- 793 • the place of production and volume of the traditional food produced per year in the third
794 country or countries;
- 795 • the geographical areas (e.g. region, country, continent) where it has been or is being consumed;
- 796 • If available, the quantity of consumption, information on the serving size(s), average, high and if
797 available maximum intake levels per person should be provided. If available, intake estimates
798 based on food consumption surveys or other estimates should be provided;
- 799 • for botanicals, clear distinction should be made between the intakes of a part of a botanical as
800 such and preparations made of it (e.g. a herbal tea prepared from the traditional food, an
801 essential oil prepared from the traditional food);
- 802 • the duration and continuity of its use over time.

803 5.2 Characteristics of the population group(s) of consumers

804 Documentation should be provided on whether the traditional food has been consumed by the general
805 population or whether its consumption was rather or entirely limited to specific subpopulations defined
806 by, for example, their age, sex, ethnicity, physiological and/or disease conditions. Information on the size
807 of the population or population groups which have consumed the traditional food should be provided.

808 5.3 Role in the diet

809 Documentation should be provided on the consumption pattern, including the frequency, the context
810 of the consumption (e.g. for specific purposes, ceremonies, combined consumption with other foods),
811 the type of dish or meal for which the traditional food is used (e.g. as a snack, main dish, ingredient or
812 spice for specified foods or meals). Information on the contribution of the traditional food to the overall
813 macro- and micronutrient intake of the population should be provided.

814 5.4 Information on the handling and preparation of the traditional food

815 This section should provide documentation concerning the handling, including storage, and the
816 preparation of the traditional food prior to its consumption, e.g. breakup or milling, peeling, removing or
817 making use of only specific parts of the food, any kind of heat treatment (cooking method), or any other
818 type of treatment.

819 5.5 Precautions for the preparation and restrictions of use of the traditional food

820 The applicant should provide information on any precautions that have been traditionally applied
821 during the preparation of the traditional food, any kind of treatment or methods that may be deemed to
822 reduce levels of toxic, allergenic or antinutritional substances or to improve digestibility, as well as
823 information on reported limitations and restrictions for sensitive/specific population groups. Information
824 on prohibitions or restrictions of use imposed to the traditional food in the third countries should be
825 provided, if applicable.

826 5.6 Human data

827 The applicant should provide a comprehensive literature search to retrieve human data related to the
828 safety of the traditional food (e.g. absorption, nutritional, microbiological, allergenic, tolerability,
829 interaction with medicines). Human data could include human intervention and observational studies,
830 case reports and information from surveillance reports.

831 The applicant should not only consider and limit their literature search to the traditional food itself,
832 but should also consider searching for studies with specific and typical components of the traditional food
833 and for studies with similar foods from the same or other closely related sources (e.g. other varieties or
834 subspecies or related species of the same genus or the same family).

835 5.7 Other information

836 The applicant should provide toxicological studies (e.g. *in vitro* studies, genotoxicity studies, 90-day
837 repeated dose studies) relevant for the safety assessment of the traditional food and/or for the safety
838 assessment of relevant constituents in the traditional food, when available. Publications on studies which
839 could indicate allergenic potential of the traditional food (e.g. *in silico*, *in vitro*, *in vivo*, human studies
840 including case reports, cross-reactivity studies) should be provided. Publications on non-food uses should
841 also be provided if relevant (e.g. cosmetic, feed studies).

842 6. Proposed conditions of use for the EU market (*blue text unique for* 843 *traditional foods*)

844 A rationale for the target population, proposed uses and use levels, precautions and restrictions of use
845 of the traditional food as intended to be placed on the EU market should be provided with cross-
846 referencing to the relevant data on the 'history of safe food use' of the traditional food in a third country.
847

848 6.1 Target population

849 The applicant should unambiguously specify the intended target population. When the traditional food
850 is intended to be added as ingredient to foods, or to be consumed as whole food, the proposed target
851 population is the general population (i.e. cannot be restricted to subgroups thereof) (as stipulated in
852 Article 5(6) of the Commission Implementing Regulation (EU) 2017/2469).
853

854 6.2 Proposed uses and use levels

855 The applicant should specify the intended uses of the traditional food (e.g. as whole food, ingredient).

856 If the traditional food is intended to be added as ingredient to foods, the applicant should provide the
857 following information in a tabulated format:

858 (a) the food categories in which the traditional food is proposed to be added. Food categories can be specified
859 according to the EFSA Food Additive Intake Model (FAIM) tool³⁵ or the Dietary Exposure (DietEx) tool³⁶.

860 All intended uses should be expressed with the use of a unique classification system (i.e. either FAIM
861 tool categories or DietEx tool categories). Codes and names of the proposed food categories should
862 be provided (see examples in tables 1 and 2).

863 (b) When selecting the FAIM tool categories, please refer to the instructions available on the website³⁷
864 particularly in relation to the unspecified food categories displayed in the FAIM tool.

865 (c) When using DietEx tool, the applicant is advised to use broad FoodEx categories instead of overly specific
866 ones (e.g., yoghurts in general rather than certain types of yoghurts; biscuits in general rather than certain
867 types of biscuits). The choice of overly specific food categories may cause difficulties for national authorities
868 in the authorisation process of the traditional food.

869 b) the proposed maximum use levels (i.e. maximum concentrations) of the traditional food in each
870 food categories as consumed (e.g. expressed as mg/kg or mg/100g or mg/100 mL).

871 Tables 1 and 2 display examples how the applicant should present the information on the proposed uses
872 and use levels as described in the points above.

873 **Table 1:** Proposed uses and use levels according to the FAIM tool
874

FAIM tool code	FAIM tool category	Maximum level
01.7.2	Ripened cheese	100 mg/kg

875 **Table 2:** Proposed uses and use levels according to DietEx tool

FoodEx code	FoodEx category	Maximum level
A00EY	Cereal bars	10 mg/100 g

876
877
878 When the traditional food is intended to be used as a whole food, the applicant has to indicate the food already
879 consumed in the diet in EU (using either a category in FAIM or in DietEx tool) which can reasonably reflect the
880 anticipated consumption pattern of the traditional food. Applicants should provide their considerations and

³⁵ The FAIM tool was developed by EFSA for estimating chronic exposure to food additives in the regulatory framework of food additives Regulation (EU) 1333/2008. Considering that the exposure assessment of food additives and intake assessment of NF ingredients share common principles, the FAIM tool can also be used for the intake assessment of NF. See section 7.3 for the use of the FAIM tool to estimate the intake of the NF. FAIM tool is available at: <https://www.efsa.europa.eu/en/applications/food-improvement-agents/tools>

³⁶ The DietEx tool was developed by EFSA for estimating chronic exposure to substance present in food, naturally present or intentionally added to foods like Novel Foods. See section 7.3 for the use of DietEx tool to estimate the intake of the NF. DietEx tool is available at: <https://www.efsa.europa.eu/en/science/tools-and-resources/dietex>

³⁷ <https://www.efsa.europa.eu/sites/default/files/applications/FAIM-instructions.pdf>

881 explanations as to why it is reasonable to expect that the traditional food corresponds to specific food(s) consumed
882 in the EU.

883

884 6.3 Anticipated intake of the traditional food

885 On the basis of the information provided in Sections 6.1 and 6.2, the applicant should estimate the
886 chronic daily intake of the traditional food. This estimate should include both the amount of traditional
887 food consumed per kilogram of body weight and the total absolute amount of traditional food consumed
888 per day. The applicant should provide estimates of the mean and high (95th percentile) anticipated daily
889 intakes of the traditional food for each target population group, including specific population groups such
890 as pregnant and lactating women.

891 The FAIM tool or the DietEx tool are available to applicants to perform the chronic intake estimate of the
892 traditional food when added to foods. When estimating the intake, the applicant should consider all food
893 categories to which the traditional food is intended to be added for a conservative scenario. Both FAIM
894 and DietEx tools use individual consumption data from the EFSA Comprehensive Food Consumption
895 Database to generate estimates (mean and 95th percentile) for population groups (infants, young and
896 other children, adolescents, adults) throughout several EU countries. It is noted that the DietEx tool
897 provides more refined food categories as compared to the FAIM tool which uses broader food categories.
898 Thus, DietEx allows a more refined selection of food categories and intake estimates of the traditional
899 food.

900 If the available toxicological data, human data, data on chemical composition or literature review raise
901 concerns regarding an acute effect, the applicant should also consider acute intake estimates of the
902 traditional food.

903 When a traditional food is reasonably expected to be used as an alternative to another food already consumed in
904 the diet in the EU (e.g. when the traditional food is a whole food – section 6.2), the applicant should use the
905 consumption data of the food already consumed in the EU to estimate the anticipated intake of the traditional food.

906 6.4 Intended role in the

907 [Where a traditional food is intended or likely to be used as an alternative to another food, the](#)
908 [applicant should demonstrate that it does not differ from that food in a way that it would be nutritionally](#)
909 [disadvantageous for the consumer.](#)

910 6.5 Precautions and restrictions of use

911 When proposing precautions and restrictions of use, all available information on safety should be
912 taken into consideration.

913 The applicant should indicate any restrictions of use and precautions related to the handling,
914 preparation and consumption of the traditional food.

915 7. Concluding remarks

916 The applicant should integrate the information on the composition and the experience of use and
917 provide a concise overall consideration on how this substantiates the history of safe use of the traditional
918 food and how this relates to the proposed conditions of use for the EU market. Where potential health

919 hazards have been identified on the basis of the composition and/or data from the experience of use,
920 they should be discussed.

921

922 References (to be included)

923 *Please refer to the list of references in the draft Guidance on the scientific requirements for an*
924 *application for authorization of a novel food which is under public consultation.*

925 Abbreviations (to be included)

926 *Please refer to the list of abbreviations in the draft Guidance on the scientific requirements for an*
927 *application for authorization of a novel food which is under public consultation.*

DRAFT

928 Annexes

929
930 Annex A Identity-related requirements for foods consisting of, isolated from or produced
931 from microorganisms

Requirements	Microorganisms as traditional foods	Microorganisms used in the production of traditional foods
Unambiguous taxonomic identification at species level (EFSA FEEDAP Panel, 2018; EFSA, 2021e)		
Certificate of deposition (including accession number) in an internationally recognised culture collection having acquired the status of International Depository Authority under the Budapest Treaty (EFSA FEEDAP Panel, 2018)	Mandatory	Mandatory
Acquired antimicrobial resistance genes (EFSA FEEDAP Panel, 2018; EFSA, 2021e; EFSA BIOHAZ Panel, 2023a)	Mandatory for bacteria (regardless of QPS status)	Mandatory for bacteria (regardless of QPS status)
Assessment of the capacity of the microbial strain to produce antimicrobial compounds (EFSA FEEDAP Panel, 2018)	Applicable to TUs: - known to produce antimicrobials relevant to use in humans and animals - not qualifying for the QPS approach - included in the QPS list but for which a qualification regarding antimicrobial production exists	Applicable to TUs: - known to produce antimicrobials relevant to use in humans and animals - not qualifying for the QPS approach - included in the QPS list but for which a qualification regarding antimicrobial production exists
Toxigenicity and pathogenicity traits (EFSA FEEDAP Panel, 2018; EFSA, 2021e)	Applicable to TUs: - not qualifying for the QPS approach - included in the QPS list but for which a qualification regarding toxigenic activity exists	Applicable to TUs: - not qualifying for the QPS approach - included in the QPS list but for which a qualification regarding toxigenic activity exists
Whole genome sequence (WGS) data according to EFSA, 2021e	Mandatory	Mandatory
Presence of viable cells in the traditional food to be tested (EFSA FEEDAP Panel, 2018)	Applicable to: - Biomasses - QPS TUs with the qualification 'for production purposes only'	Applicable to: - QPS TUs with the qualification 'for production purposes only' - Non-QPS TUs
Presence of DNA in the traditional food to be tested (EFSA FEEDAP Panel, 2018)		Applicable to: - strains harbouring acquired AMR genes

932

933

934

935 Annex B: Table of all input materials used in the manufacturing process of the traditional food

<i>Input material</i>	Chemical identifier (CAS, EC Number etc)	CoA	Functional Role	Regulatory status in EU
e.g. b-cyclodextrin	7585-39-9 (hydrate)	Name of the CoA document in the dossier	emulsifier	Authorised food additive (E 459)

936

937 Annex B: Compositional data retrieved in peer-reviewed articles (*unique for traditional foods*)

	Compositional data in the traditional food (TF) notification			Compositional data retrieved in the literature			
Compound/ Group	Concentration as measured in the TF batches (range)	Units	Analytical technique	Concentration (range)	Units	Analytical technique	Reference
Caffeic acid	5-10	mg/kg	HPLC-UV	2-20	mg/kg	HPLC-UV	XXXX et al.
Saponins	1-2	mg/kg expressed as XXX equivalents	Spectrophotometric method	0.1-1	mg/kg expressed as XXX equivalents	Spectrophotometric method	XXX et al.
Chlorogenic acid	4-6	mg/kg	HPLC-MS/MS	3-5	mg/kg	HPLC-MS/MS	XXXX et al.

938

939

940 Annex D: Information on the ‘history of use of the traditional food’ in a tabulated format (*unique for traditional foods*)

941

Reference	Years of consumption (duration)	Country	Traditional food (TF) consumed, handling and preparation	Extent of use	Role in the diet	Population of consumers
Example: Author, year, journal name	Years when the consumption of the TF occurred	Name of the country where the TF was consumed	Describe how the TF was prepared and consumed. Indicate whether there are deviations from the TF which is intended to be put on the market, and discuss how these deviations may impact the safety profile of the TF intended to be put on the EU market.	Indicate the quantity of TF consumed per person; volume of TF produced per year.	Indicate whether the TF was consumed as a side dish, a snack, consumed only on special occasions.	General population, or specific population groups.

942