



## JOINT FAO/WHO FOOD STANDARDS PROGRAMME

### CODEX COMMITTEE ON FOOD ADDITIVES

#### Fifty-third Session

### MATTERS OF INTEREST ARISING FROM FAO/WHO AND FROM THE 92<sup>ND</sup> AND 95<sup>TH</sup> MEETINGS OF THE JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES (JECFA) RESPECTIVELY

Prepared by the Codex Secretariat

#### Background

##### Inclusion of individual food additives under the same group header

1. In the Procedural Manual<sup>1</sup>, it is described that food additives that share a numerical group ADI will be considered as a group without further restrictions on the use of individual additives in that group. However, in some cases, restrictions on the use of individual additives in that group could be appropriate (e.g., because of public health concerns).
2. The 51<sup>ST</sup> Session of the Codex Committee on Food Additives (CCFA51) (2019)<sup>2</sup> clarified the operational procedure for the addition/removal of individual food additives under the same group heading and noted that the Procedural Manual provided specific considerations for the inclusion of individual food additives as group food additives. It was further clarified that in the future, a Joint FAO/WHO Expert Committee on Food Additives (JECFA) recommendation to CCFA to include an additive in a group header for food additives in the *General Standard for Food Additives* (GSFA, CXS 192-1995) would be discussed under agenda item 3(a), "Matters of interests arising from FAO/WHO and JECFA", and that the decision of the committee would be captured both in the body of the report and its respective appendix.

##### Proposed draft Table 3 provisions

3. CCFA52<sup>3</sup> (2021) agreed to include a proposed draft Table 3 provision at Step 3 in the agenda Item 3(a) "Matters of Interest Arising from FAO/WHO and from the Meeting of JECFA" document when JECFA publishes an ADI of "not specified" and provides full specifications for the additive if the additive has an INS name, number, and functional class.

#### JECFA evaluation for Riboflavin from *Ashbya gossypii* and the pertinent provisions in the GSFA

4. The 92<sup>nd</sup> JECFA conducted the safety evaluation for Riboflavin from *Ashbya gossypii* (INS 101(iv)), established a group ADI "not specified" for riboflavin, riboflavin- 5'-phosphate, riboflavin from *B. subtilis* and riboflavin from *A. gossypii*, expressed as riboflavin and withdrew the previous group ADI of 0–0.5 mg/kg bw.
5. The 92<sup>nd</sup> JECFA also established specifications for Riboflavin from *Ashbya gossypii* (INS 101(iv)).
6. RIBOFLAVINS is included as a group food additive in Tables 1 and 2 of the GSFA. There are three individual food additives under the group header RIBOFLAVINS, i.e., Riboflavin, synthetic (INS 101(i)), Riboflavin 5'-phosphate sodium (INS 101(ii)) and Riboflavin from *Bacillus subtilis* (INS 101(iii)).

#### Recommendations

7. Based on the evaluation results of the 92<sup>nd</sup> JECFA meeting and following the decisions of CCFA51 and CCFA52, it is proposed that CCFA53 consider the following:

<sup>1</sup> [https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https://workspace.fao.org/sites/codex/Shared%20Documents/Publications/Procedural%20Manual/Manual\\_27/PM27\\_2019e.pdf](https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https://workspace.fao.org/sites/codex/Shared%20Documents/Publications/Procedural%20Manual/Manual_27/PM27_2019e.pdf)

<sup>2</sup> REP19/FA, paragraph 8

<sup>3</sup> REP21/FA, paragraph 131

- (i) the provisions for the four food additives (INS 101(i), INS 101(ii), INS 101(iii), INS 101(iv)) in Table 3 at Step 3 (see Annex 1 to the document);
- (ii) the appropriateness of including Riboflavin from *Ashbya gossypii* (INS 101(iv)) under the group header RIBOFLAVINS in the GSFA (see Annex 2 to the document);
- (iii) the impact on all provisions for RIBOFLAVINS in Tables 1 and 2 (see Annex 2 to the document) when the provisions contained in Annex 1 to the document are adopted, noting that:
  - a) numerical maximum levels are established for these Table 1 and 2 provisions;
  - b) Notes restricting the use of the food additives (e.g., XS notes) are attached to some provisions; and
  - c) under normal procedure, Table 3 additives do not have provisions in Tables 1 and 2 in food categories that are not listed in the Annex to Table 3 of the GSFA.

**GENERAL STANDARD FOR FOOD ADDITIVES**  
**NEW FOOD ADDITIVE PROVISIONS**  
**(at Step 3)**

<b>INS No.</b>	<b>Additive</b>	<b>INS Functional Class</b>	<b>Step</b>	<b>Year</b>	<b>Acceptable, including foods conforming to the following commodity standards</b>
101(i)	Riboflavin, synthetic	Colour	3		
101(ii)	Riboflavin 5'-phosphate sodium	Colour	3		
101(iii)	Riboflavin from <i>Bacillus subtilis</i>	Colour	3		
101(iv)	Riboflavin from <i>Ashbya gossypii</i>	Colour	3		

## Annex 2

**AFFECTED PROVISIONS AND GROUP HEADER IN TABLES 1 AND 2 OF THE GENERAL STANDARD  
FOR FOOD ADDITIVES**

New text is indicated in **bold/underline**. Text to be removed is indicated in ~~strikethrough~~.

## RIBOFLAVINS

INS 101(i) Riboflavin, synthetic                      Functional Class:                      Colour

INS 101(ii) Riboflavin 5'-phosphate sodium                      Functional Class: Colour

INS 101(iii) Riboflavin from *Bacillus subtilis*                      Functional Class: Colour

**INS 101(iv) Riboflavin from *Ashbya gossypii***                      **Functional Class: Colour**

FoodCatNo*	FoodCategory	MaxLeve		Notes	Year Adopted
01.1.4	Flavoured fluid milk drinks	300	mg/kg	52	2008
01.3.2	Beverage whiteners	300	mg/kg	XS250 & XS252	2021
01.5.2	Milk and cream powder analogues	300	mg/kg	XS251	2021
01.6.1	Unripened cheese	300	mg/kg	491, XS273, XS275	2021
01.6.2.1	Ripened cheese, includes rind	300	mg/kg	462,504, XS208, XS265, XS266, XS267, XS268, XS269, XS270, XS271, XS272, XS274, XS276, XS277, XS278	2021
01.6.2.2	Rind of ripened cheese	300	mg/kg		2005
01.6.4	Processed cheese	300	mg/kg		2005
01.6.5	Cheese analogues	300	mg/kg		2005
01.7	Dairy-based desserts (e.g. pudding, fruit or flavoured yoghurt)	300	mg/kg		2005
02.2.2	Fat spreads, dairy fat spreads and blended spreads	300	mg/kg		2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	300	mg/kg		2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300	mg/kg		2005
03.0	Edible ices, including sherbet and sorbet	500	mg/kg		2005
04.1.1.2	Surface-treated fresh fruit	300	mg/kg	4 & 16	2008
04.1.2.4	Canned or bottled (pasteurized) fruit	300	mg/kg	267	2018
04.1.2.5	Jams, jellies, marmelades	200	mg/kg		2005

04.1.2.6	Fruit-based spreads (e.g. chutney) excluding products of food category 04.1.2.5	500	mg/kg		2005
04.1.2.7	Candied fruit	300	mg/kg		2005
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300	mg/kg	182	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300	mg/kg		2005
04.1.2.10	Fermented fruit products	500	mg/kg		2008
04.1.2.11	Fruit fillings for pastries	300	mg/kg		2005
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300	mg/kg	4 & 16	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500	mg/kg		2005
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	300	mg/kg	92	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500	mg/kg		2008
05.1.5	Imitation chocolate, chocolate substitute products	1000	mg/kg		2005
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000	mg/kg	XS309R	2017
05.3	Chewing gum	1000	mg/kg		2005
05.4	Decorations (e.g. for fine bakery wares), toppings (non-fruit) and sweet sauces	1000	mg/kg		2005
06.3	Breakfast cereals, including rolled oats	300	mg/kg		2005
06.4.3	Pre-cooked pastas and noodles and like products	300	mg/kg	153, 473	2019
06.5	Cereal and starch based desserts (e.g. rice pudding, tapioca pudding)	300	mg/kg		2005
06.6	Batters (e.g. for breading or batters for fish or poultry)	300	mg/kg		2005
06.8.1	Soybean-based beverages	50	mg/kg		2010
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300	mg/kg		2005
08.2	Processed meat, poultry, and game products in whole pieces or cuts	1000	mg/kg	16, XS96 & XS97	2014
08.3	Processed comminuted meat, poultry, and game products	1000	mg/kg	16, XS88,	2014

				XS89 & XS98	
08.4	Edible casings (e.g. sausage casings)	1000	mg/kg	16	2008
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000	mg/kg	95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312 & XS315	2017
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300	mg/kg	16 & XS166	2017
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	300	mg/kg	16	2005
09.2.4.1	Cooked fish and fish products	300	mg/kg	95	2008
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	300	mg/kg		2008
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	300	mg/kg	16	2005
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300	mg/kg	22, XS167, XS189, XS222, XS236, XS244 & XS311	2018
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	300	mg/kg	16	2005
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	300	mg/kg	16	2005
09.3.3	Salmon substitutes, caviar, and other fish roe products	300	mg/kg	XS291	2018
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g. fish paste), excluding products of food categories 09.3.1 - 09.3.3	300	mg/kg		2005
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500	mg/kg	95, XS3, XS37, XS70, XS90, XS94 & XS119	2018
10.1	Fresh eggs	300	mg/kg	4	2005
10.4	Egg-based desserts (e.g. custard)	300	mg/kg		2005

11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	300	mg/kg		2005
11.4	Other sugars and syrups (e.g. xylose, maple syrup, sugar toppings)	300	mg/kg		2005
12.2.2	Seasonings and condiments	350	mg/kg		2005
12.4	Mustards	300	mg/kg		2005
12.5	Soups and broths	200	mg/kg	344	2015
12.6	Sauces and like products	350	mg/kg	XS302	2018
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	300	mg/kg		2005
12.9.1	Fermented soybean paste (e.g., miso)	30	mg/kg		2010
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	300	mg/kg		2005
13.4	Dietetic formulae for slimming purposes and weight reduction	300	mg/kg		2005
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300	mg/kg		2005
13.6	Food supplements	300	mg/kg		2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50	mg/kg		2005
14.2.2	Cider and perry	300	mg/kg		2005
14.2.4	Wines (other than grape)	300	mg/kg		2005
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	100	mg/kg		2005
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000	mg/kg		2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g. dried fruit)	1000	mg/kg		2005

\*Food categories that do not appear in the Annex to Table 3 are in grey highlight