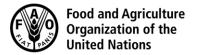
CODEX ALIMENTARIUS COMMISSION





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Agenda Item 13

CRD24 Rev. April 2024 ORIGINAL LANGUAGE

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON CONTAMINANTS IN FOODS

17th Session 15-19 April 2024

Comments submitted by WHO

Agenda Item 13: Request for comments on the recommendation for the establishment of maximum levels for cadmium and lead in quinoa

Please note the following changes in CX/CF 24/17/13, Table 1, Table 2 adding ML equal to 0.15 under the section 'Occurrence data', and Table 3, under the section 'Dietary Exposure Estimates', as indicated below in underline and strikethrough:

OCCURRENCE DATA

Table 1: distribution of concentration levels of cadmium in quinoa (in mg/kg)

ML (mg/kg)	No. of individual samples	% <lod< th=""><th>Mean</th><th>P50</th><th>P75</th><th>P95</th><th>P97.5</th><th>Max</th><th>Proportion of quinoa grains rejected (%)</th></lod<>	Mean	P50	P75	P95	P97.5	Max	Proportion of quinoa grains rejected (%)
No ML	516		0.05	0.05	0.06	0.09	0.13	0.59	0
ML= 0.2	515	7.9	0.05	0.05	0.06	0.09	0.13	0.19	0.2
ML= 0.15	512		0.05	0.05	0.06	0.09	0.13	0.15	0.8
ML=0.1	492		0.04	0.04	0.06	0.08	0.09	0.10	4.7

Table 2: distribution of concentration levels of lead in quinoa (in mg/kg)

ML (mg/kg)	No. of individual samples	% <lod< th=""><th>Mean</th><th>P50</th><th>P75</th><th>P95</th><th>P97.5</th><th>Max</th><th>Proportion of quinoa grains rejected (%)</th></lod<>	Mean	P50	P75	P95	P97.5	Max	Proportion of quinoa grains rejected (%)
No ML	529		0.02	0.01	0.03	0.08	0.13	0.24	0
ML=0.2	527	59	0.02	0.01	0.03	0.06	0.13	0.15	0.4
ML=0.15	525		0.02	0.01	0.03	0.06	0.13	0.14	0.8
ML=0.1	509		0.02	0.01	0.03	0.04	0.05	0.10	3.8

CF17/CRD24 Rev 2

DIETARY EXPOSURE ESTIMATES

Cadmium

17. Table 3 presents the estimates of dietary exposure and the risk characterization to cadmium for consumers of quinoa grain. Impact of different proposed MLs for quinoa grain on the dietary exposure and risk characterization is provided for discussion at CCCF.

Table 3: Dietary exposure to cadmium from the consumption of quinoa grain in adults and children consumers, risk characterization and impact of different proposed MLs.

Cadmium: PTMI JECFA 82 (25 μg/kg/bw/month)	Population	mean consumer of quinoa grain (g/kg bw/d)	P95 consumer of quinoa grain (g/kg bw/d)	mean exposure to cadmium lead from quinoa (µg/kg bw/month d)	P95 exposure to <u>cadmium</u> lead from quinoa (µg/kg bw/ <u>month</u> d)	Risk characterization of <u>cadmium</u> lead from quinoa: mean (% PTMI)	Risk characterization of <u>cadmium lead</u> from quinoa: P95 (% PTMI)
No ML	Adult	0.65	1.30	0.98	1.95	4%	8%
	Children	0.73	1.45	1.09	2.18	4%	9%
ML = 0.2	Adult	0.65	1.30	0.98	1.95	4%	8%
	Children	0.73	1.45	1.10	2.18	4%	9%
ML = 0.1	Adult	0.65	1.30	0.78	1.56	3%	6%
	Children	0.73	1.45	0.88	1.74	4%	7%