

Agenda Item 4

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Original Language Only

JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX COMMITTEE ON FATS AND OILS

Twenty-third Session

Langkawi, Malaysia, 25 February – 1 March 2013

PROPOSED DRAFT AMENDMENT TO PARAMETERS FOR RICE BRAN OIL IN THE STANDARD FOR NAMED VEGETABLE OILS

Comments at Step 3

(Comments of European Union, India Kenya and Mali)

EUROPEAN UNION

The European Union and its Member States (EUMS) would like to submit the following comments:

Table 1 of the Codex document shows the fatty acid composition of rice bran oil. Regarding the analytical methods cited in the 'note' of the table, the EUMS have the following comments:

1) The standard AOCS CE 2-66 is similar to the standard ISO 12966-2, as it includes the protocols most used in ISO (4.2 rapid method and 4.4 transmethylation using as a catalyst boron trifluoride). This standard has been reviewed in 2009 and not in 2011 as indicated in the Codex document.

2) AOAC Standards:

- Standard AOAC 963.22: determination of fatty acid methyl esters by CPG

- Standard AOAC 969.33: determination of fatty acids by infrared spectroscopy (IR)

The results obtained with this standard AOAC 963.22 could be comparable to those obtained with the ISO standard 5508 as it is based on the same analysis technique. However, with regard to the determination by IR, (AOAC 969.33), it is a secondary technique which is imprecise and it should not be used for fixing official limits.

INDIA

1. Fatty acid compositions of Refined Rice Bran Oil as determined by gas liquid chromatography from authentic samples (Table 1 of CODEX STAN 210-1999).

We support the Fatty acid compositions of Refined Rice Bran Oil as determined by gas liquid chromatography from authentic samples (Table 1 of CODEX STAN 210-1999), however changes are proposed in some of the Fatty Acid Compositions/Parameters as indicated in Table 1 below:-

Table 1:- PROPOSED SPECIFICATION OF REFINED RBO(RICE BRAN OIL)		
No.	Parameter	Proposed Specs
1	Fatty Acid composition /Parameters	
	C12	0.0 – 0.2
	C14	0 to 1.1
	C18	0.0 to 4.0
	C18:1	38 to 51
	C18:2	22 to 42
	C18:3	0.1 to 2.9

Rationale: Due to its high consumption, refined RBO is one of the unique oil for India and based on national data we are proposing the above modifications.

2. Fatty acid compositions of Crude Rice Bran Oil as determined by gas liquid chromatography from authentic samples (Table 1 of CODEX STAN 210-1999).

The present specifications for the fatty acid compositions of Crude Rice Bran Oil are not acceptable since the fatty acid specifications are very narrow.

The following specification is proposed:

Table 1: PROPOSED SPECIFICATION OF CRUDE RBO(RICE BRAN OIL)		
No.	Parameter	Proposed Specs
1	Fatty Acid composition /Parameters	
	C12	0.0 – 0.2
	C14	0 to 1.1
	C16	14-23
	C18	0 to 4
	C18:1	38 to 51
	C18:2	22 to 42
	C18:3	0.1 to 2.9
2	Moisture & Insoluble Impurities % by Wt max	1.25% Max
3	Refractive Index @ 40° C	1.4600 – 1.473
4	Specific Gravity @30° C	0.910 – 0.929
5	Saponification Value	175 – 199
6	Iodine Value	85-115
7	Acid Value	Max 40
8	Unsaponifiable Matter % by weight max	Max 6.5%
9	Peroxide Value	Max 10

Rationale: Crude RBO is one of the unique oil for India and based on national data we are proposing above standards.

KENYA

Recommendation for consideration by the CCFO

11. Since the level of desmethylsterols in Table 3 of CODEX STAN 210-1999 are for crude vegetable oils, it is recommended that analysis data of crude rice bran oil in Table 2 are used to recommend the amendment of the standard. The proposal for the amendment of the level of desmethylsterols of rice bran oil in Table 3 of CODEX STAN 210-1999 are :

1. Amend the level of Brassicasterol from “ND” to “ND-0.3”
2. Amend the level of other desmethylsterols from ND to “7.9-12.0”

Comments on the amendments below

As per data mentioned in the document Kenya would like to submit its comments as follows:

1. C14 – we agree with ammendment since most products are within that range“ 0.1-0.7” to “ ND-1.1”.
2. C18.0- we agree with ammendment since most products are within that range“ 29-40” to “ 25-42”.
3. C22.0- we agree with ammendment since most products are within that range ND-0.5” to “ ND-1.0”.
4. C24.0 - we agree with ammendment since most products are within that range ND-0.6” to “ ND-0.9”

MALI

Le Mali adresse ses félicitations aux Etats-Unis d’Amérique pour la préparation du document de travail. Il n’a pas d’observations particulières sur la proposition de nouveaux travaux. Il est favorable à la poursuite des travaux.