THE SOLVENT EXTRACTORS' ASSOCIATION OF INDIA

(Incorporated under S.25 of the Companies Act, 1956)

Premier Association of Vegetable Oil Industry & Trade - ISO 9001:2015 Organisation

PAN No.: AAATT0156E CIN: U91110MH1971NPL015233 GST TIN No.: 27AAATT0156E1ZR

PHONE : (91-22) 22021475-22822979
: (91-22) 35131729-35131730
: (91-22) 22028911 (EXE. DIRECTOR)
E-MAIL : seaofindia1963@gmail.com
WEB-SITE : www.seaofindia.com

142, JOLLY MAKER CHAMBERS No. 2,
14th FLOOR,
225, NARIMAN POINT,
MUMBAI-400 021.
INDIA

By E-mail & Speed Post

I-14 / 1241 / 2024-25
5th August 2024

Dr. Bhawana Sachdeva
Joint Director – Food & Agriculture Department
& Member Secretary FAD13
BUREAU OF INDIAN STANDARDS
9-Bahadur Shah Zafar Marg
New Delhi – 110 002

Dear Madam

Reg : **Comments on "Document No. & Title: IS 548 Part 2 'Method of test for oils and fats - Purity tests"**

We are pleased to give hereafter the Association's comments on "Document No. & Title: IS 548 Part 2 'Method of test for oils and fats - Purity tests" for your kind consideration.

Thanking you
Yours sincerely

[Dr. B. V. MEHTA]
EXECUTIVE DIRECTOR

From : THE SOLVENT EXTRACTORS' ASSOCIATION OF INDIA

COMMENTS ON BIS DOCUMENTS

Document No. & Title: IS 548 Part 2 'Method of test for oils and fats - Purity tests

Sl. No.	Clause/ Subclause/ para/table no. commented.	Type of Comments (General/ Editorial/ Technical)	Comment with Justification/Supporting data	Proposed change (Additions in the Method)
1	Test No.7	Technical	Reaction Mechanism will help to understand the chemistry of reaction and possible interference from other oil Components.	❖ Principle of Boudin test - reaction mechanism of sesame oil component with Furfural – To be included. ❖ What are the components in edible oils , which may show interference in this test – To be included
2	Test No 8	Technical	Reaction mechanism will help to understand the interaction of functional group with reagents and also help to deduce the possible interferences .	Chemical Reaction Mechanism of Halphen test to be included
3	Test No 9	Technical	Min linolenic content levels will help to understand Limit of detection of the Test	❖ Chemical Reaction mechanism of hexabromide test to be included. ❖ What is the Minimum linolenic content which will give a positive result ?
4	Test No 10	Technical	Active component in Karanja oil and reaction mechanism is needed to understand the	❖ Reaction mechanism of Antimony trichloride with Karanja Oil (What ingredient of karanja oil reacts ?) ❖ Possible interferences in this test

Sl. No.	Clause/ Subclause/ para/table no. commented.	Type of Comments (General/ Editorial/ Technical)	Comment with Justification/Supporting data	Proposed change (Additions in the Method)
			chemistry of reaction and look out for possible interferences.	❖ Thin Layer Chromatography Method) - What component in Karanja oil corresponds to Rr 0.27 ? ❖ What are the likely oils / components that will appear at the similar retention time ?
5	Test 12	Technical	Active component is needed to understand the principle of the test.	❖ What are the specific components in TARAMIRA oil which shows spotting when steam distilled , extracted, and sprayed with ammoniacal silver Nitrate. ❖ Possible interferences in the test
6	Test 16	Technical	Details of other oils which may give false positive test for Kusum oil is needed to understand the limitation of this test .	❖ Reaction mechanism of Cyanogenic compounds with reagents . ❖ Other Oils which may give false positive test for Kusum oil