

AMENDMENT

ISO
9832

First edition
1992-12-15

AMENDMENT 1
1998-03-15

**Animal and vegetable fats and oils —
Determination of residual technical hexane
content**

AMENDMENT 1: Results of interlaboratory test

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*Corps gras d'origines animale et végétale — Dosage de l'hexane technique
résiduel*

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AMENDEMENT 1: Résultats de l'essai interlaboratoire

ISO 9832:1992/Amd 1:1998

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Reference number
ISO 9832:1992/Amd.1:1998(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Amendment 1 to International Standard ISO 9832:1992 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

Annex A of this International Standard is for information only.

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Animal and vegetable fats and oils — Determination of residual technical hexane content

AMENDMENT 1: Results of interlaboratory test

Page 5, subclauses 11.1 and 11.2

Replace references to table 2 by “annex A”.

Delete table 2.

Page 6

Insert the following annex.

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Annex A
(informative)

Results of interlaboratory test

An international collaborative test involving 21 laboratories in 8 countries was carried out using the method given in this International Standard. The collaborative test was organized by the Federation of Oils, Seeds and Fats Associations Ltd. (FOSFA International) in 1994. The results obtained were subjected to statistical analysis in accordance with ISO 5725:1986 (now withdrawn) to give the precision data as shown in table A.1.

The collaborative test was carried out on spiked samples of soyabean and sunflowerseed oils:

Samples A to D: sunflowerseed oil
Samples E to H: soyabean oil

Table A.2 shows the expected means of the samples provided to analysts.

Table A.2 also shows the actual means obtained and the repeatability limits found by the collaborative test.

Table A.1 — Summary of statistical results

	Sample							
	A	B	C	D	E	F	G	H
No. of laboratories originally instructed	21	21	21	21	21	21	21	21
No. of laboratories returning results	18	18	18	18	17	18	18	18
No. of laboratories with acceptable results	11	14	14	14	12	15	15	15
Overall mean (mg/kg)	1,55	392,6	1 059,1	757,5	1,65	374,5	1 043,4	808,8
Repeatability standard deviation, s_r (mg/kg)	0,09	10,06	20,43	24,9	0,39	8,31	25,8	18,9
Repeatability limit, r (mg/kg)	0,26	28,2	57,2	69,8	1,09	23,3	72,2	52,9
Reproducibility standard deviation, s_R (mg/kg)	0,58	22,1	73,3	55,9	0,65	26,9	55,9	48,2
Reproducibility limit, R (mg/kg)	1,62	61,8	205,2	156,4	1,83	75,4	156,6	135,1
Ratio R/r	6,1	2,2	3,6	2,2	1,7	3,2	2,2	2,6
Range of accepted results	1 to 2,8	342,4 to 428,2	881 to 1 214,1	588 to 873,7	0 to 3,1	326,2 to 447	896 to 1 153,6	693 to 888,0

Table A.2 — Comparison of expected and actual means and repeatability limits

Type of oil	Sample	Expected mean from homogeneity test	Overall mean from collaborative test	Interpolated repeatability limit	Repeatability limit from collaborative test
Sunflowerseed oil	A	1,30	1,55	< 1,8	0,26
	B	384,8	392,6	74,8	28,2
	C	1 100	1 059,1	> 202	57,2
	D	787	757,5	152	69,8
Soyabean oil	E	1,17	1,65	< 1,8	1,09
	F	361,4	374,5	70,4	23,3
	G	1 028	1 043,4	198	72,2
	H	779,6	808,8	151	52,9

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