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मानक

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“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 3797 (1993, Reaffirmed 2009): Spices and Condiments--Celery Seeds--Specification (First Revision).  
UDC 664.5 : 635.53



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“Knowledge is such a treasure which cannot be stolen”



IS 3797 : 1993

REAFFIRMED

-- JAN 2009

भारतीय मानक

मसाले एवं मसाले – अजमोदा बीज – विशिष्ट

( पहला पुनरीक्षण )

*Indian Standard*

SPICES AND CONDIMENTS — CELERY  
SEEDS — SPECIFICATION

( *First Revision* )

UDC 664.5 : 635.53

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BUREAU OF INDIAN STANDARDS  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

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Price Group 1

## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards, after the draft finalized by the Spices and Condiments Sectional Committee had been approved by the Food and Agriculture Division Council.

Of the various spices exported from India, celery seeds *AJMODA* accounts for a sizable quantity; United Kingdom and United States of America being our biggest buyers. Celery seeds are also exported to European countries like France, Italy, Netherlands, West Germany as well as to Australia and New Zealand. This standard has been formulated to further augment our export of celery seeds

This standard was first issued in 1966. This revision is brought out for upgrading the requirements in line with the International Standard ( ISO ) on celery seeds. Requirements for volatile oil content have been incorporated.

This standard is subject to the restrictions imposed under the *Prevention of Food Adulteration Act, 1954* and the *Rules* framed thereunder, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values ( *revised* )'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

**AMENDMENT NO. 1 JANUARY 1994**  
**TO**  
**IS 3797 : 1993 SPICES AND CONDIMENTS — CELERY**  
**SEEDS — SPECIFICATION**

*( First Revision )*

*( Page 2, clause 8.1 ) — Substitute '1993' for '1991'.*

( FAD 9 )

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Reprography Unit., BIS, New Delhi, India

## Indian Standard

# SPICES AND CONDIMENTS — CELERY SEEDS — SPECIFICATION

( *First Revision* )

### 1 SCOPE

This standard prescribes the requirements for celery seeds (*Apium graveolens* L.).

### 2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

IS No.	Title
1070 : 1992	Reagent grade water ( <i>third revision</i> )
1797 : 1985	Methods of test for spices and condiments ( <i>second revision</i> )
13145 : 1993	Spices and condiments — Methods of sampling ( <i>first revision</i> )

### 3 TERMINOLOGY

**3.1** For the purpose of this standard, the following definitions shall apply.

#### 3.1.1 Extraneous Matter

It includes dust, dirt, stones, clay particles, chaff and stem or straw.

#### 3.1.2 Damaged Seeds

Discoloured, shrivelled and immature seeds.

#### 3.1.3 Foreign Seeds

Seeds other than those of *Apium graveolens* L.

### 4 GRADES

**4.1** Celery seeds shall be of three grades, namely, Special, Good and Fair ( *see* Table 1 )

### 5 REQUIREMENTS

#### 5.1 Description

The celery seeds shall be the dried, ripe fruits of *Apium graveolens* L. The seeds shall be light brown to greyish brown in colour. The shape of the seeds shall be ovoid to hemispherical, their length about 1 to 1.5 mm and width 0.5 to 1.0 mm. The seeds shall have several raised streaks running along their longitudinal axis, these streaks being lighter than the rest of the seeds.

#### 5.2 Taste and Aroma or Flavour

The taste and aroma or flavour of celery seeds shall be fresh and characteristic of the type and variety. The material shall be free from foreign taste and aroma or flavour as well as from any musty odour.

#### 5.3 Freedom from Moulds and Insects Attack

The celery seeds shall be free from visible insect and moulds, and shall be practically free from dead insects and contamination by rodents, visible to the naked eye, corrected, if necessary, in any particular case. In case the magnification exceeds X 10, this fact should be stated in the test report.

**Table 1** Grade Designations of Celery Seeds and Their Requirements  
( *Clauses 4.1, 5.4 and 9.1* )

Sl No.	Characteristic	Requirement			Method of Test, Ref to Cl No. of IS 1797 : 1985
		Special	Good	Fair	
(1)	(2)	(3)	(4)	(5)	(6)
i)	Moisture, percent by mass, <i>Max</i>	10.0	11	11	9
ii)	Total ash, ( on dry basis ), percent by mass, <i>Max</i>	10.0	11.0	12.0	6
iii)	Acid insoluble ash, ( on dry basis ), percent by mass, <i>Max</i>	2.0	2.5	3.0	8
iv)	Volatile oil content ( on dry basis ), percent by mass, <i>Min</i>	2.0	1.5	1.5	15
v)	Extraneous matter, percent by mass, <i>Max</i>	0.5	1.5	3.0	4
vi)	Damaged and foreign seeds, percent by mass, <i>Max</i>	1.5	2.5	3.0	4

5.4 The grade designations and the requirements for each of them shall be as given in Table 1.

#### 6 PACKING

Celery seeds shall be packed in sound, clean and dry containers made of a material which shall protect celery seeds from insect infestation as well as from any offensive odour.

#### 7 MARKING

7.1 The following particulars shall be marked or labelled on each container:

- a) Name of the material and grade designation,
- b) Variety or trade name,
- c) Batch or code number,

- d) Net mass,
- e) Date of packing, and
- f) Country of origin.

#### 8 SAMPLING

8.1 Representative samples of celery seeds shall be drawn according to IS 13145 : 1991.

#### 9 TESTS

9.1 Tests shall be carried out in accordance with Table 1.

#### 9.2 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (*see* IS 1070 : 1992) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.