

Indian Standard
SPECIFICATION FOR
EDIBLE LEAF PROTEIN CONCENTRATE

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 30 September 1976, after the draft finalized by the Nutrition Sectional Committee had been approved by the Agricultural and Food Products Division Council.

0.2 Use of leaf protein has been suggested for many years as a means to alleviate protein shortages. Since the present availability of milk and other nutritious foods like eggs and meat is low, leaf proteins may possibly help in the alleviation of protein calorie malnutrition. The amino acid pattern of this protein shows it to be of reasonably good quality and it may be added to enrich various food formulations. Keeping this objective in view this standard has been formulated to ensure production of leaf protein of certain minimum quality.

0.2.1 Basically, the process requires cell rupture of green leaves to liberate the juice containing proteins. The juice is then separated and its proteins are coagulated. The coagulum is separated and dried.

0.3 Plants from which leaves may be taken for the production of edible leaf protein concentrate and the method by which it may be produced are suggested in, Appendices A and B respectively.

0.4 In the preparation of this standard, due consideration has been given to the provisions of the Prevention of Food Adulteration Act, 1954, and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under these rules, wherever applicable.

0.5 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*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for edible leaf protein concentrate.