**Research** Note

## **Studies on drying and dehydration of** *ber* **for preparation of sharbat B.M. RODGE** AND S.S. YADLOD

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In the present investigation the physicochemical composition of ber of the varieties Gola, Umran, Kadaka, local was studied. In the physical parameters length, breadth, weight, volume, pulp content and weight of seed were observed. In the chemical composition, the parameters like moisture percentage in pulp, total soluble solids, acidity, ascorbic acid, reducing and total sugars were estimated. The ber fruits were subjected to pre-treatments like blanching and suplhitation before drying by sundrying and cabinet drying. The organoleptic evaluation of Sharbat prepared from ber powder was compared with market sample. The organoleptic of score all the products was never below the acceptable limit.

Ber is one of the prominent fruit crops in India. Ber is King of Fruit of arids. It has been grown in India and China since 400 Years. The major growing states are Madhya Pradesh, Bihar, Uttar Pradesh, Punjab, Maharashtra and Andhra Pradesh. Ber fruits are exported to Europe under the name "Shabri Bore". At present the fruits are used as table fruit and very little is known about its uses in processing paints. It can also be presented in the form of juice, squash. Ber powder is prepared from ripe ber. Dried ber is used for preparation Sharbat.

The experiment was conducted during the year 2000 on four *ber* varieties *viz.*, Umran, Kadaka, Gola planted at the Central Farm, Marathwada Agricultural University, Parbhani. The fruits of local variety were purchased from the fruit market. The physico-chemical composition of *ber* fruit was carried out. The sample of 20 *ber* fruits was used for physical characters and chemical analysis. The drying and dehydration was carried out by sun drying and cabinet drying. Before actual drying and dehydration the pre-treatments blanching and suplhitation were given. The organoleptic evaluation of the *Sharbat* prepared from *ber* powder was done by a panel of 10 members and was scored on a 9 point hedonic scale (Amerine and Pangborn, 1965).

The data on physical parameters of different *ber* varieties are presented in Table 1. With regard to the fruit weight the variety Umran recorded maximum fruit weight (21.50 g). The minimum fruit weight was found in local variety (6.50 g).

The weight of seed was found maximum in Umran (2.40 g) followed by variety Kadaka (2.0) and minimum seed weight (1.0 g) was recorded in variety Gola. The per cent fruit pulp in Umran and Kadaka varieties was practically similar. The local variety has minimum percentage of pulp in the fruit. The maximum length of fruit was found Kadaka fruit (4.52 cm), whereas the breadth of Umaran fruit was found to be maximum (3.12 cm). The maximum shape index was found in Kadaka. The volume of Umran fruit was found to be the maximum in variety Umran (35 ml) followed by Kdaka, Gola and minimum volume (4.70 ml) was recorded in local variety.

## Chemical components of fruits:

Data presented in Table 2 indicated that there were differences among the chemical parameters of *ber* fruit of different varieties.

As regards the moisture content in the variety Kadaka it was recorded maximum (82.5%) and minimum moisture was recorded in local variety (79.2%). Total soluble solids in Gola variety was found more than Umran, Kadaka and local. As regards the acidity in fruit pulp the local variety had higher

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