

E2-15: Preliminary experiments towards the establishment of a standards for the quality control of Dasamoolarishtaya

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The growing popularity and mass scale commercial production and sale of Ayurvedic medicines has rendered their standardization and quality control necessary. In this study, one of the most popular Ayurvedic preparations was monitored during the production process.

Decoctions of Dasamoolarishtaya were prepared according to the Ayurvedic pharmacopoeia, divided into 2 equal portions of about 20 L and allowed to ferment. One vat was fitted with a device to tap (200 ml) samples weekly over a period of 60 days. The other was sealed and opened after 30 days as recommended.

The tapped samples were analysed for total sugar, reducing sugar, total solid matter and alcohol.

The analytical data of the tapped samples were processed using a microcomputer. Total sugar and total solids content reached a minimum value after about 20 days. Reducing sugar and alcohol increased and reached stable values.

The stable values reached were similar to those values of the sealed sample opened after 30 days. Statistical average values of the analytical results of 3 samples prepared strictly following the recipe were found to be similar. These results were used to obtain the tolerance limits. Analytical results of market samples of Dasamoolarishtaya were compared with the tolerance limits selected.

Standard Specifications recommended for Dasamoolarishtaya

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|--------------------|-------------------|
| Total sugar | 30.5 - 35.5 % w/v |
| Reducing sugar | 30.0 - 35.5 % |
| Total solid matter | 30.5 - 36.0 % |
| Alcohol content | 9.0 - 11.0 % |