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A Comparative Study of Seethodaka Taila Standard

with different commercial samples

(Standardization of Seethodaka Taila)

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Abstract

Seethodaka taila, a medicated oil widely used in Ayurveda for treatment of septic wounds, burns and in Ayurveda surgeries was standardized according to rules and regulations in Indian system of medicine. Four standard samples were prepared following the procedures in Ausada Samgrahaya. Three of them were prepared using coconut oil as sneha dravya. Fourth sample was prepared using coconut milk as sneha dravya.

For the standardization parameters such as organo-leptic properties, acid value, saponification value, iodine value, loss on drying at 105 °C, refractive index, TLC analysis and microbial purity against *Staphylococcus aureas* were tested.

Numerical values for above parameters were established. They are as follows; Saponification value 186-264, Iodine value 19-22, Acid value not more than 3.6, Refractive index 1.4519 - 1.4521, Loss on drying at 105 °C not more than 0.5% w/v. In TLC analysis, five major spots with R_f values at 0.4362, 0.4681, 0.5639, 0.6915 & 0.9043 were observed. Spot with R_f value 0.6915 is orange in colour, others are in purple.

Proper packaging and storing is also very important to retain the therapeutic efficacy and the stability of taila. Hence storing in ambour coloured glass bottles with air tight metal screw caps is recommended. Taila should be packed in 30, 60 or 100 ml bottles to reduce surface contact with air and light when opened and reused. Proper labeling is also important to avoid the mixing up of the finished product. Label of the bottle should contain name of taila in three languages; Sinhala, Tamil and English, volume of sample, direction for use, name and address of the manufacturer, manufactured date and expiry date, batch number and storage conditions. Commercial samples obtained from Sri Lanka Ayurveda Ausada Sanstha, Navinna; Gampaha Wickramarachchi Siddaurveda Co. (pvt) Ltd, Yakkala;

Gampaha Siddaurveda Rasayanausada Co. Ltd, Yakkala , Hettigoda Industries Company (Pvt) Ltd, Rathmalana; Link Natural Products (Pvt) Ltd, kapugoda were selected for the study. Organo-leptic properties; colour, odour and taste of all the samples were similar. Iodine value of all samples are in 19-22 range, except the sample of Gampaha Wickramarachchi Siddaurveda Co. (pvt) Ltd & Gampaha Siddaurveda Rasayanausada Co, Ltd, Yakkala. Only saponification value of Gampaha Siddaurveda Rasayanausada Co. Ltd, Yakkala and Refractive index of Gampaha Wickramarachchi Siddaurveda Co. (pvt) Ltd, Yakkala are with in range of 186-264 and 1.4519 - 1.4521 respectively. Acid value and Loss on drying at 105 °C of all the samples are above the recommended range; not more than 3.6 and not more than 0.5% w/v respectively. TLC finger print pattern of all the samples except Gampaha-Wickramarachchi Siddaurveda Co. (pvt) Ltd, Yakkala were similar. All samples showed higher microbial purity against *Staphylococcus aureas*. Of all samples, only Sri Lanka Ayurveda Ausada Sanstha, Navinna was stored in ambour coloured glass bottles whereas the others were stored in transparent glass bottles. None of the above commercial samples were properly labeled. Finally, we suggest all commercial Seethodaka taila prepared by different manufacturers should met all the conditions described in above standardization protocol in order to protect manufacturer, physicians and consumer.