

Standardization of Jala *Peenis* Choornam used for *Peenis* Rogam¹Madushani, Y. M. P. K., ²Sulohana, P., ³Selvaluxmy,K., ³Medawatta, H. M. U. I. and ²Thayalini, T.¹Institute of Chemistry, Ceylon, Rajagiriya, Sri Lanka²Unit of Siddha Medicine, University of Jaffna, Kaithady, Sri Lanka³Herbal Technology Section, Industrial Technology Institute, Colombo-7, Sri Lanka

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In Siddha Medicine, one of the indigenous Medicine practiced in Sri Lanka, most of the herbs are used in the preparation drugs. *Peenis* Rogam is one of the common diseases in *Siroroga Maruthuvam* (Diseases of neck and above). *Jalapenis* choornam (*JP* choornam) is mentioned in *Siddha* literature for the treatment of all types of *Peenis* including *Jaladosham* (Acute rhinitis). *JP* choornam contains powder of *Caesalpinia bonducella* seeds, *Curcuma longa* rhizome and *Nigella sativa* seeds in 2:1:1 by weight ratio. There is no validated scientific data on the efficacy of *JP* choornam on *Peenis* Rogam. Therefore, this study aimed to standardize the *JP* choornam by phytochemical screening, physico-chemical determination and antioxidants as total polyphenolic content before evaluating the efficacy. The plant parts of *C. bonducella* seeds, *C. longa* rhizome and *N. sativa* seeds were cleaned, dried at room temperature, ground to powder, packed in sealed container separately and blended together in 2:1:1 ratio respectively to obtain *JP* choornam. This mixture was used to analyze physico-chemical parameters, phytochemicals and total polyphenolic contents (TPC). The results revealed that the physico-chemical parameters, moisture, total ash, acid-insoluble ash, water soluble ash, water extractable matter and ethanol extractable matter were 2%, 4.98 (± 0.001), 0.28 (± 0.002), 2.40 (± 0.003), 9.5 (± 0.01)% and 8.63 (± 0.007)% respectively on dry weight basis and the presence of phytochemicals, steroids, terpenoids, flavonoids, cardiac glycosides and saponins (3.6 mg/g). TPC was 2.16 \pm 0.07 mg gallic Eq/g of *JP* choornam. In conclusion, the physico-chemical analysis of plant drugs is important to maintain the quality as well as to detect adulteration. The values obtained for *JP* choornam are acceptable and it is rich in phytochemicals. High TPC content of *JP* choornam indicates that it can be used not only as a drug but also as a nutraceutical.

Keywords: Standardization, Jala *Peenis* choornam, *Peenis* Rogam