

# **A Study on Comparison of Chemical Composition of *Azadirachta indica* (neem) and *Moringa oleifera* (Sojina)**



A Production Report Submitted in Partial Satisfaction of the Requirements for the Degree of  
**Doctor of Veterinary Medicine (DVM)**

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**Khulshi, Chattogram – 4225, Bangladesh**

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A Production Report submitted as per approved style and contents

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## Abstract

Herbal consumption has been on the increase in recent time, growing concern in its usage with regards to safety in terms of its toxicity cannot be overemphasized. The study was conducted to evaluate the chemical composition of Moringa and Neem leaf and comparison between them. The leaves of *Azadirachta indica* (neem) and *Moringa oleifera* were collected from three locations. The experiment was carried out in the Department of Animal Science and Nutrition, Chattagram Veterinary and Animal Science University. Standard analytical methods were used to determine the chemical content, while their proximate compositions were determined by methods described by AOAC. DM%, Moisture, Ash, CP%, and CF% of *Azadirachta indica*(neem) are respectively 34.79%, 65.21%, 8.81%, 12.75%, 19.33% (Foliage); 32.42%, 67.58%, 9.82%, 14.07%, 12.50%(leaf); 37.87%, 62.13%, 6.33%, 5.28%, 42.95%, 93.67%(stem). DM%, Moisture, Ash, CP%, and CF% of *Moringa oleifera* are 23.85%, 76.15%, 7.94%, 28.59%, 8.75%, (6 weeks); 28.51%, 71.49%, 8.06%, 22.40%, 13.65% (8 weeks) respectively. The CP, Ash content of Moringa leaf is higher at 6 weeks compared to 8week whereas, DM and CF of Moringa leaf higher at 8 weeks than 6-week age. Moreover, CP content is found higher in Moringa (28.59%) foliage than neem (12.75%). CF content is found higher in Neem (19.33%) than Moringa (8.75%). Both Moringa and Neem contain considerable amount of CP, Ash and Organic matter (OM) and can be used as protein source feed in animal ration.

## TABLE OF CONTENTS

Chapter	Contents	Page no.
1.	Introduction	1-4
2.	Review of Literature	5- 9
3.	Materials and Methods	10
	Sample Collection	10
	Sample Preparation	10- 11
	Proximate Analysis	10- 11
4.	Results and Discussion	12-13
	Chemical composition of <i>Moringa olifera</i> leaf	12-13
	Chemical composition different parts of <i>Azadirachta indica</i> (Neem)	13-14
	Comparison of chemical composition between Moringa and Neem	15-16
5.	Conclusion	17
6.	References	18-21
	Biography	22