Supplementation of Red Betel Leaf (Piper crocatum) in Dairy Cattle Feed on Fermentation Characteristics by in Vitro

Title	Supplementation of Red Betel Leaf (Piper crocatum) in Dairy Cattle Feed on Fermentation Characteristics by in Vitro
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Abstract	The aim of this study was to assess the impact and efficiency of red betel leaf?s extract supplementation in the diet of dairy cattle on fermentation characteristics by in vitro.Ã‚Â The research method was experiment by using completely randomized design.Ã‚Â The treatments that were tested were R1: basal feed, R2: Ã‚Â R1 + 15 ppm ofÃ‚Â red betelÃ‚Â leaf (Piper crocatum) extract, R3: R1 + 30 ppm ofÃ‚Â red betel leaf (Piper crocatum) extract, R4: R1 + 45 ppm of red betel leaf (Piper crocatum) extract, R5: R1 + 60 ppm of red betel leaf (Piper crocatum) extract. The parameters measured in this study were (1)Dry MatterDigestibility (DMD),(2)Organic Matter Digestibility (OMD)Ã‚Â (3) total gas productionÃ‚Â (4) methane production (CH4) and (5)Ã‚Â total Volatille Fatty Acid (VFA). Ã‚Â The data were analyzed using analysis of variance followed Orthogonal Polynomial Test.The results showed that the suplementation red batel extract in the diet of dairy cow was significant (P < 0.01) on DMD, OMD, total gas production, methane production (CH4) Ã‚Â and total VFA.Orthogonal Polynomial test showed the effect of treatment on Dry MatterDigestibility (DMD), total gas and CH4 gas production were in the form of cubic curve, as well as Organic Matter Digestibility (OMD) and Volatille Fatty Acid (VFA) in the form of quadrate curvewith supplementation of red betel leaf.Ã‚Â Ã‚Â
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