

The effects of catfish oil supplementation as unsaturated fatty acid source on Bali cow gas production kinetics, dry matter digestibility, and organic matter digestibility in vitro

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Abstract	<p>The purpose of this study was to investigate the effects of catfish oil (CFO) supplementation on gas production kinetics, dry matter (IVDMD), and organic matter digestibility in vitro (IVOMD) with Bali cow rumen fluid. The design of this study was a completely randomized design with 5 treatment consist of T0 (control diet: Pennisetum purpupoides (60): wheat pollard (30): soybean meal (10)), T1 (T0 + 2% DM CFO), T2 (T0 + 4% DM CFO), T3 (T0 + 6% DM CFO), T4 (T0 + 8% DM CFO) and 3 replication. Gas production technique described by Menke and Steingass was used in this study with 48 hours of incubation time. Gas production kinetics was analyzed by Fit Curve application. The result showed that CFO supplementation did not change the value of gas production, a fraction value, b fraction value, gas production rate (c value), IVDMD, and IVOMD, but the increasing supplementation at the level of 8% decreased ($P < 0.05$) gas production, b value, IVDMD, and IVOMD. It could be concluded that catfish oil supplementation as unsaturated fatty acid source at the level of 6% DM in the Bali cow diet did not give a negative effect on rumen substrates degradation.</p>
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