Resumo: Redworm (Eisenia fetida Savigny, 1826) have been found to be a very good source of protein. Chemical composition are important factor in selecting redworms as aquaculture feed but the high moisture (82.80% +/- 2.128) and ash (10.70% +/- 2.345) content, mainly soil, could be an inconvenient. On September 23, 2014 twenty two juvenile largemouth bass (LB) (Micropterus salmoides Lacepede, 1802) (0+ years) were caught from a small irrigation dam (N 39 degrees 49'27,89"; W 07 degrees 26'57,92"). Juveniles LB were stocked in three aquarium for commercial compound feed training. After 3 weeks 86.4% are well trained. During the compound feed training period the survival rate was 100%. On October 13, 2014 sixteen feed-trained individuals were randomly selected and stocked in two aquarium (8 LB per aquarium with 0,048m(3) of water). LB initial average weight, average length, average K condition factor and density were similar in two aquarium. In aquaria G1 (feed redworm) and aquaria G2 (feed commercial compound) LB weight, length, K condition factor and density were, respectively, 13.62g (+/- 3.171) and 13.40g (+/- 3.002) (P>0.05); 10.49cm (+/- 0.757) and 10.39cm (+/- 0.649) (P>0.05); 1.160 (+/- 0.043) and 1.179 (+/- 0.082) (P>0.05); 2,27kg/m(3) and 2.23kg/m(3)). In our laboratorial experiment, aquarium average water temperature range between 19.90 degrees C and 16.80 degrees C. Because in Portugal there are no specific commercial feed for largemouth bass we used a commercial compound for seabream (Sparus aurata L., 1758) and European seabass (Dicentrarchus labrax L., 1758) (protein 49.74%DM; fat 18.07%DM; ash 11.57% DM; crude fiber 0.84%DM; moisture 6.55%). On day 88 (January 9, 2015) of this study average weight, length, K condition factor and density in aquaria G1 and aquaria G2 were, respectively, 17.57g (+/- 4.071) and 19.19g (+/- 4.811) (P < 0.05); 10.88cm (+/- 0.875) and 11.29cm (+/- 0.871) (P < 0.03); 1.346 (+/- 0.051) and 1.311 (+/- 0.061) (P > 0.05); 2.93kg/m(3) and 3.20kg/m(3)). Until now E. fetida seems to be a feed for largemouth bass.

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