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Highlights

- Fertile and infertile eggs from wild *Caiman latirostris* populations, had similar physico-chemical characteristics.
- Yolk of infertile eggs could be used as a non-invasive method to identify and evaluated FA composition of eggs that would allow infer differences in diets of breeding females.
- *C. latirostris* eggs had a lower proportion of albumen in respect other crocodilian species, this would indicate specific evolutionary traits.