

A NEW ASYMMETRIC COSMARIUM¹

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Species of *Cosmarium* which are characterized by the asymmetric condition of the semicells are extremely rare. Rich, in a report on the "Algae from a Pan in Southern Rhodesia," published in the *Trans. of the Royal Society of South Africa*, Vol. 23, 1935, described *Cos. asymmetricum* and stated that it was the only species to her knowledge in which one-half of the semicell is not a reflection of the other. It is readily distinguished from *Cos. zygomorphicum* by the smooth cell wall and small size.

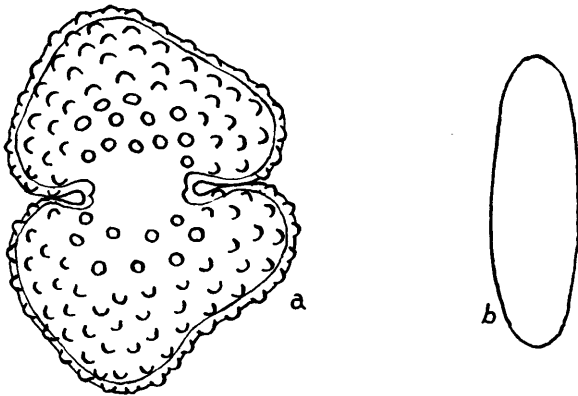


FIG. 1. *Cosmarium zygomorphicum* sp. nov.
a. Face view. b. Outline of cell in end view.

Cosmarium zygomorphicum sp. nov.

Cells of medium size, slightly longer than broad, deeply constricted, sinus closed. Semicells strongly asymmetrical, subpyramidate. End view narrowly elliptic. Cell wall coarsely granulate. One chloroplast with one pyrenoid in each semicell. L. 46–48 μ ; w. 35–37 μ ; isth. 10–13 μ .

Semicellulis in aspectu frontali asymmetricis. Long. 46–48 μ ; lat. 35–37 μ ; isthm. 10–13 μ .
Oklahoma, Puerto Rico, Indiana, Arkansas.

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