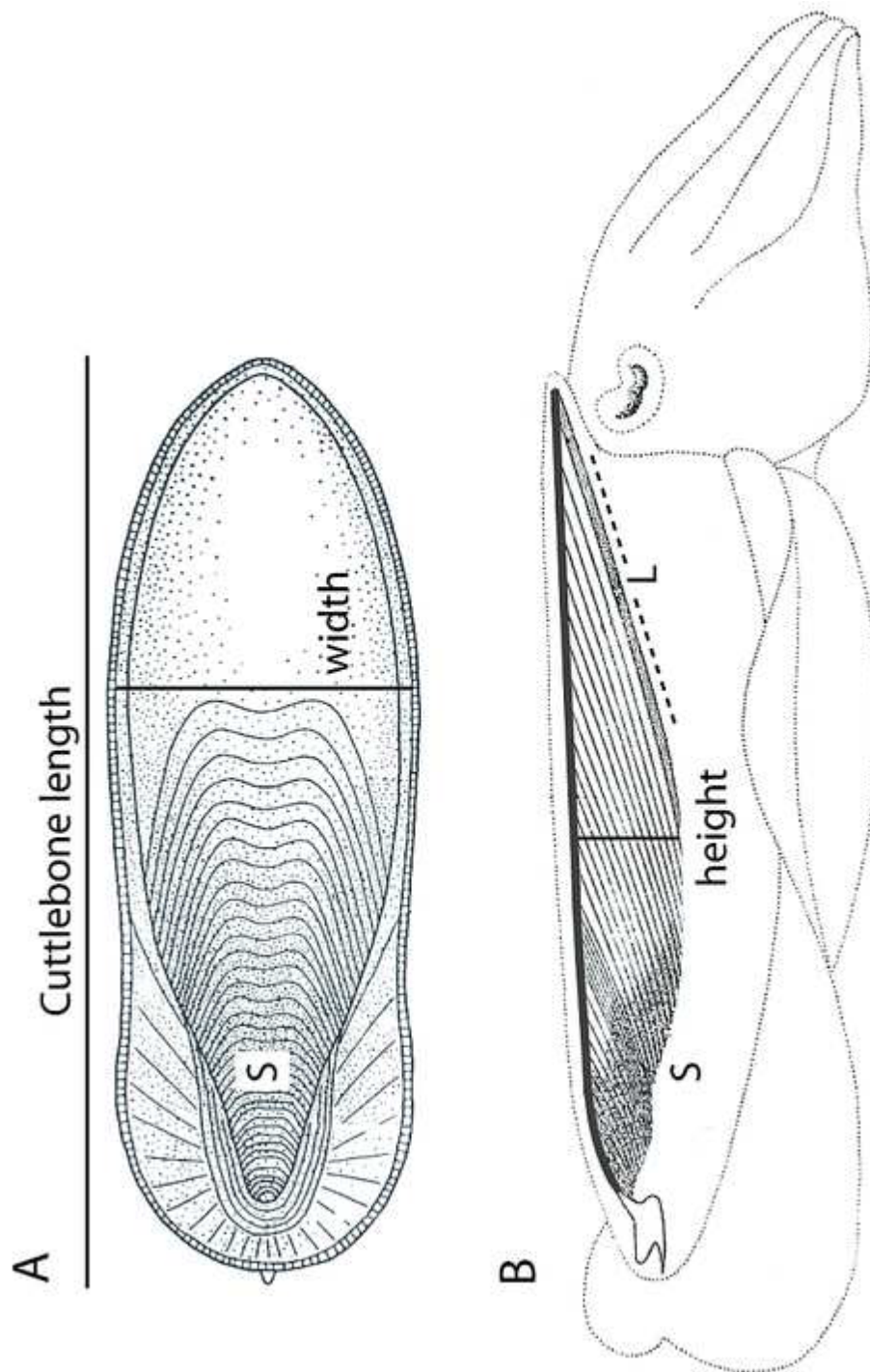


Supplementary Fig. 1 Morphometric relationships between cuttlefish mass, cuttlebone mass



and length in *S*.

officinalis raised under control conditions at 15° C ($n = 50$). **a** Cuttlefish wet mass(g) relates to cuttlebone dry mass (g) following the equation $y = 0.034x - 0.055$ ($R^2 = 0.99$), over a cuttlefish size range of 5-35 g. **b** Cuttlebone length (mm) and cuttlebone dry mass (g) follow the equation $y = 0.209 - 0.02x + (6.03 \times 10^{-4})x^2$ ($R^2 = 0.99$)

Supplementary Fig. 2 SEMs **a-b** illustrating detailed microstructure of irregular, spherical, CaCO_3 deposits that were primarily associated with the ventral surfaces of the lamellae. **c** Surfaces of the structures were partially coated with organic matrix and hexagonal CaCO_3 crystals approximately $1\mu\text{m}$ in diameter

