



## ***Jardinella* Iredale & Whitley, 1938**

### **Diagnostic features**

Shell trochiform, medium to moderate size (up to about 4 mm in length), smooth except for growth lines, whorls convex or with angulated shoulder; umbilical chink or narrow umbilicus present. Aperture broadly ovate, peristome thickened internally; inner lip attached to parietal wall. Protoconch of 1.2–1.4 whorls, minutely sculptured with irregular pits and rugae. Operculum yellowish with reddish tinge, oval, paucispiral with last whorl large, nucleus acentric, inner surface with or without small white smear, and sometimes traces of two or three weak protuberances. Radula with median cusp of central teeth wider and longer than adjacent cusps; lateral margins rather wide; innermost basal cusps short; third rudimentary cusp sometimes present. Basal tongue short, broad U-shaped. Rectum with U-shaped arch. Male with large, bean-shaped prostate gland, about half in pallial roof. Pallial vas deferens convoluted. Penis with broad base and long, tapering, non-pigmented distal portion lacking lobes or processes; glands absent. Female with simple-U-shaped coiled oviduct, orientated near vertically, coiled oviduct extends to near anterior edge of bursa copulatrix or is anterior to it. Bursa copulatrix slightly overlaps posterior end of albumen gland. Capsule gland longer and broader than albumen gland. Pallial oviduct with vestibule narrower or same width as ventral channel, pallial opening at about one third length of capsule gland; no cowl and/or gutter associated with oviduct opening (from Ponder et al. 2021).

### **Classification**

***Jardinella*** Iredale & Whitley, 1938

*Class* Gastropoda

*Infraclass* Caenogastropoda

*Order* Littorinida

*Suborder* Rissoidina

*Superfamily* Truncatelloidea

*Family* Tateidae

Genus *Jardinella* Iredale & Whitley, 1938

Type species: *Petterdiana thanumi* Pilsbry, 1900

Original reference: Iredale, T. & Whitley, G.P. (1938). The fluvifaunulae of Australia. *South Australian Naturalist* 18: 64-68.

Type locality: Near Cairns, Queensland; type locality restricted to Barron River.

## Biology and ecology

Found in coastal rivers and streams on rocks, leaves and wood in the Wet Tropics. Egg capsules are transparent, lens-shaped, 0.48-0.53 mm in diameter, and have been seen laid singly in the umbilical chink of females.

## Distribution

*Jardinella* occurs in coastal rivers of the Wet Tropics, from the vicinity of Cairns south to Tully.

## Notes

*Jardinella*, like other related Queensland tateid genera, has two pairs of cusps on the central teeth of the radula and never develops "calcareous" pegs on the operculum, although there is often a white smear.

## Further reading

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