

***Annulusmagnus triseptatus*** (S.W. Wong, K.D. Hyde & E.B.G. Jones) J. Campb. & Shearer – AEB 1072 (= PDD 97388) The specimen is a good match to this species.

(Basionym: *Annulatascus triseptatus* S.W. Wong, K.D. Hyde & E.B.G. Jones. Mycol. Res. 103:563. 1999.)

See *Mycologia*, 96(4), 2004, pp. 822–833, *Annulusmagnus* and *Ascitendus*, two new genera in the Annulatascaceae by Jinx Campbell and Carol A. Shearer.

**Substrate:** Unidentified decorticated very decayed wet wood ca 3 inches diam

**Collection site:** bush gully stream bed in a residential property, Kelson, Lower Hutt, New Zealand

**Collection date:** 14 February 2009

**Collector:** Ann Bell

**Identifier:** Dan Mahoney

**Voucher materials:** Dried herbarium specimen [AEB 1072 (= PDD 97388)] accompanied by 3 Shear's mounting fluid (SMF) slide mounts; in-situ dissecting scope photos of perithecia and several compound scope digital shots of centrum contents; Dan's brief description and comments.

**Brief description:** **Perithecia** black, coriaceous, somewhat roughened on the outside with varying amounts (not large amounts) of non-descript setose-like hyphae, numerous, separate or closely clustered (often the latter), subglobose with a short cylindrical neck and sometimes with yellow brown coloration at its tip (I suspect longer necks which had eroded), immersed, semi-immersed or superficial (I believe that they originated in an immersed state and then were exposed as the wood eroded around them), ca 500 µm in diam. **Paraphyses** numerous, filamentous, simple, septate, tapering and hyaline. **Asci** detaching easily from the hymenium, discharged in milky viscid cirri; free floating in slide mounts, cylindrical with a short stipe and a large non-amyloid bipartite apical ring with a subapical flange (see photos), 8-spored with spores arranged uniseriately overlapping, 162.5–180 × 8 µm (n=10) in SMF, two measured at 225 & 235 µm long in a water mount. **Ascospores** hyaline, fusoid, plano-convex in the predominant view but symmetrically bi-convex in other views, smooth, 3-septate without constrictions at the septa and without a slime sheath, 20–27 × 6–8 µm (n=13) – mostly still within the free floating asci and there often ca 24–27 × 7 µm.

***Annulusmagnus triseptatus* photo legends (14-2-09 collection)**

1. Two mature deciduous asci, 225 & 235  $\mu\text{m}$  long, brightfield microscopy, water mount using the 40X objective. Note the large bipartite apical rings each with a subapical flange, the 8 uniseriately overlapping 3-septate ascospores, the plano-convex and symmetrically convex ascospore shapes, the large number of internal vacuoles and the short stipe.
2. The same two asci photographed with phase microscopy.
3. Tips of the same two asci photographed with brightfield microscopy using the 100X objective.
4. Tips of the same two asci photographed with phase microscopy.
5. Perithecia in-situ on wood, bar inner length = 625  $\mu\text{m}$
6. Perithecia in-situ on wood, closeup of photo 5, bar inner length = 400  $\mu\text{m}$





