

Key to *Agaricus* species in Queensland

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|---|----|
| 1. Stipe yellowing distinctly when scratched | 2 |
| 1. Stipe reddening, browning or not changing colour when scratched | 4 |
| 2. Cap white, cream, or occasionally pale greyish-brown, cap yellowing when scratched, at least at margin | |
| <i>Agaricus xanthodermus</i> | |
| 2. Cap covered in dark brown to grey brown small squamules or fibrils, only lower half of stipe strongly yellowing when scratched | 3 |
| 3. Fruiting bodies almost black when young, radially splitting at maturity | |
| <i>Agaricus rotalis*</i> | |
| 3. Young fruiting bodies grey brown, only occasionally splitting at maturity | |
| <i>Agaricus moelleri</i> | |
| 4. Stipe with a broad ring, >35 mms diameter with floccules or warts below | 5 |
| 4. Ring < 35mms, or if larger then without floccules or warts on its lower side | 6 |
| 5. Cap covered with yellow brown to brown squamules on paler background | |
| <i>Agaricus augustus</i> | |
| 5. Cap white discolouring yellowish brown with age or on handling, glabrous or covered with minute concolourous fibrils | |
| <i>Agaricus arvensis*</i> | |
| 6. Cap with purple, vinaceous or brown-vinaceous fibrils or squamules | 7 |
| 6. Cap white, cream or brownish, fibrillose, squamulose or glabrous | 10 |
| 7. Cap fibrillose at centre, but elsewhere covered in broad, adpressed red brown to brown-vinaceous squamules, spores 7-9 µm long | |
| <i>Agaricus langei</i> | |
| 7. Cap uniform fibrillose or covered in narrow squamules, spores < 7 µm long | 8 |
| 8. Cap large, 50 - 100 mms diameter, plano convex, later applanate, flesh reddening or browning on cutting | |
| <i>Agaricus austrovinaceus</i> | |
| 8. Cap smaller, 30 - 60 mms diameter, convex, flesh yellowing slightly or unchanging on cutting | 9 |
| 9. Spores 5.3 × 3.5 on average | |
| <i>Agaricus dulcidulus</i> | |
| 9. Spores 7 × 4.4 on average | |
| <i>Agaricus sp 1</i> | |
| 10. Stipe with bulbous base and height generally = or > cap diameter | |
| <i>Agaricus impudicus</i> | |
| 10. Stipe without bulbous base | 11 |
| 11. Cap brownish, ring triangular, lamellar edge sterile, basidia 2-spored | |
| <i>Agaricus bisporus</i> | |
| 11. Cap white to cream, ring thin, lamellar edge fertile, basidia 2 or 4-spored | 12 |

12. Stipe height < cap diameter, ring thin, lamellar edge fertile, basidia 4-spored

Agaricus campestris

12. Stipe height > cap diameter, ring ephemeral, basidia 2 and 3 spored.

Agaricus sp 5

Notes:

1. * no Queensland material but probably present.

2. *Agaricus dulcidulus* also recorded in Queensland under its synonym *A. semotus*

3. *Agaricus moelleri* recorded in Australia under its synonym *A. praeclarosquamosus*.

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