

## Pinkgill Diversity Assessment Key

Pinkgills are very varied, some slender stemmed with thin caps and others very chunky. The colours range from white to black with many blues and browns. The thing they all have in common is pink spores which can often be seen on those with pale gills or on the caps of one below. This key tries to break the Pinkgills into smaller groups based on specific features. Each group can then be broken down further and each specimen can be assigned a most likely species and a code. The code may represent a species or group of similar species. The tool is not designed to identify to species but to help discern difference between species to help give an idea of the species diversity in a given area.

Paying attention to features described here is a good start to developing an eye for Pinkgill species ID.

A x10 hand lens or macro camera view is essential to see some of these features.

Look at the following list of features and then choose the appropriate key. If the key doesn't seem to make any sense for the specimen you have, try the list again.

Key A – Black/Blue Gill Edge

Key B – Brown Gill Edge

Key C – White Cap

Key D – Pink Cap

Key E – Stem Colour dark, Black/Blue

Key F – Smooth/Polished Blue/Grey Stem

Key G – Blue Fibrils on Stem

Key H – Yellow Gills

Key I – White/Pale Gills and Cap with Umbo

Key J – White Pale Gills and Umbilicate Cap

Key K – Blue Gills

Key L – Smooth Cap and Polished Stem

Key M – Smooth Cap with Umbo

Key N – Umbilicate cap

Key O – Stem with Fibrils

Key P – Polished Stem

### Key A – Black/Blue Gill Edge

Some Pinkgills have a strong colour to the edge of the gill, not always visible to the naked but clear with a hand lens.

Cap Colour Brown – Cap Striate	Cap <40mm - Blue Girdled Pinkgill ( <i>E. caesiocinctum</i> )	Code ABR1
Cap Not Striate	Cap <50mm - Navy Edge Pinkgill ( <i>E. querquedula</i> )	Code ABR2
Cap Colour Black – Cap Striate	Cap <40mm - Blue Edge Pinkgill ( <i>E. serrulatum</i> )	Code ABL1
Cap Not Striate	Cap <30mm - Rockrose Pinkgill ( <i>E. violaceoserrulatum</i> )	Code ABL2
Cap Colour Pale – Cap Striate	Cap <25mm - Fawn Pinkgill ( <i>E. carneogriseum</i> )	Code AP1

### Key B – Brown Gill Edge

Cap Colour Blue/Black Violet – Gill Colour Blue –	Cap <50mm - Indigo Pinkgill ( <i>E. chalybaeum</i> )	Code BB1
Gill Colour Whi/Grey – Cap <50mm - Darkmantled Pinkgill ( <i>E. mougeotii</i> )		Code BB2
Cap Colour Light Brown – Stem Brown	Cap <50mm - Longlined Pinkgill ( <i>E. longistriatum</i> )	Code BLB1
Stem Blue/Green	Cap <30mm - Glaucous Pinkgill ( <i>E. exile</i> )	Code BLB2
Stem Yellow	Cap <50mm - Browndedge Pinkgill ( <i>E. xanthocroum</i> )	Code BLB3
Cap Colour Dark Brown – Stem Blue/Grey	Cap <55mm - Greyfoot Pinkgill ( <i>E. poliopus</i> )	Code BDB1
Stem Pale Brown	Cap <60mm - Darkedged Pinkgill ( <i>E. fuscomarginatum</i> )	BDB2

### Key C – White Cap

Chunky with Mealy Smell	Cap <70mm - Mealy Pinkgill ( <i>E. prunuloides</i> )	Code CM1
Cap Striate	Cap <30mm - Swan Pinkgill ( <i>E. olorum</i> )	Code CS1
Stem Width 0.5-1mm	Cap <15mm - Coralloid Pinkgill ( <i>E.rugosum</i> )	Code CW1
Stem Width 2-4mm	Cap <40mm - Creamy Pinkgill ( <i>E.sericellum</i> )	Code CW2

### Key D – Pink Cap

Gill Edge Smooth	Cap <30mm - Rosy Pinkgill ( <i>E. roseum</i> )	Code D1
Gill Edge Serrulate	Cap <45mm - Bluefoot Pinkgill ( <i>E.catalunicum</i> )	Code D2

### Key E – Stem Colour Dark, Black/Blue

Stem Polished – Gills Pale Grey	Cap <40mm - Black Pinkgill ( <i>E. aethiops</i> )	Code EP1
Gills White/Yellow	Cap <50 mm - Beautiful Blue Pinkgill ( <i>E. caeruleum</i> )	Code EP2
Stem Fibrillose – Cap Fading with Age – Stem Blue	Cap <40mm - Navy Pinkgill ( <i>E. atrocoeruleum</i> )	Code EF1
Cap Remains Dark – Stem Dark	Cap <55mm - Crow Pinkgill ( <i>E. Corvinum</i> )	Code EF2

### Key F – Smooth/Polished Blue/Grey Stem

Gills Blue - Cap Darker at Centre	Cap <30mm - Heavenly Pinkgill ( <i>E.cruentatum</i> )	Code FBLG1
Cap Yellow at Centre	Cap <20mm - Bluegreen Pinkgill ( <i>E. cyaneoviridescens</i> )	Code FBLG2
Cap Smooth – Stem Opalescent with Purple Tinges	Cap <30mm - Spangle Pinkgill ( <i>E. caeruleopolitum</i> )	Code FS1
Blue Cap –	Cap <10mm - Blue Dwarf Pinkgill ( <i>E. cyanulum</i> )	Code FBLC1
Cap with Browns – Purple/Brown	Cap <25mm - Bluebrown Pinkgill ( <i>E.pseudocoelestinum</i> )	Code FBR1
Dark Brown	Cap < 55mm - Greyfoot Pinkgill ( <i>E.poliopus</i> )	Code FBR2
Brown – Scaly Cap	Cap <30mm - Roughened Pinkgill ( <i>E. asprellum</i> )	Code FBR3
Light Brown - Less Scaly – Pale Stem	Cap <40mm - Friendly Pinkgill ( <i>E. sodale</i> )	Code FBR4
Cap <40mm - Friendly Pinkgill ( <i>E. sodale</i> )		
Light Brown – Scaly at Centre	Cap <35mm - Blueleg Pinkgill ( <i>E.lividocyanulum</i> )	Code FBR5

### Key G –Blue Fibrils on Stem

Cap Smooth – Bright Blue	Cap <80mm - Brightsky Pinkgill ( <i>E. madidum</i> )	Code GSC1
Dark Blue	Cap <80mm - SlateBlue Pinkgill ( <i>E. atromadidum</i> )	Code GSC2
Violet Blue	Cap <80mm - Big Blue Pinkgill ( <i>E. bloxamii</i> )	Code GSC3
Cap Brown - Stem Pale Blue/Grey with White Apex	Cap <50mm - Felted Pinkgill ( <i>E.griseocyaneum</i> )	Code GWT1
Stem Darker - Dark Blue Fibrils	Cap <40mm - Azureleg Pinkgill ( <i>E. lampropus</i> )	Code GBF1
Fibrillose to Floccose	Cap <70mm - Robust Pinkgill ( <i>E. anatinum</i> )	Code GBF2
Cap Violet	Cap <40mm - Bicoloured Pinkgill ( <i>E .dichroum</i> )	Code GV1
Cap Blue/Black – Cap tomentose finely scaly	Cap <40mm - Navy Pinkgill ( <i>E. atrocoeruleum</i> )	Code GBB1
Cap scaly fibrillose	Cap <50mm - Blackish Pinkgill ( <i>E.atrocoeruleum</i> )	Code GBB2

### Key H - Yellow Gills

Stem Fibrillose – Not striate	Cap <40mm - Ochre Pinkgill ( <i>E. kervenii</i> )	Code HF1
Stem Polished – Smell Fruity	Cap <50mm - Browndge Pinkgill ( <i>E. xanthocroum</i> )	Code HP1
Smell Mouse pee	Cap <40mm - Mousepee Pinkgill ( <i>E. incanum</i> )	Code HP2

### Key I – White/Pale Gills and Cap with Umbo

Cap Not Striate – Cap Cream Brown	Cap <70mm - Mealy Pinkgill ( <i>E. prunuloides</i> )	Code INS1
Cap Pu/Re/Gry/Br	Cap <70mm - Marsh Pinkgill ( <i>E. elodes</i> )	Code INS2
Stem Striate	Cap <150mm - Lilac Pinkgill ( <i>E. porphyrophaeum</i> )	Code INS3
Stem Fibrillose		
Stem - Silvery Striate	Cap <60mm - Star Pinkgill ( <i>E. conferendum</i> )	Code ISSS1
Stem – Fibrillose	Cap <60mm - Spring Pinkgill ( <i>E. vernum</i> )	Code ISF1
Stem Polished - Cap Stepped	Cap <35mm - Priesthat Pinkgill ( <i>E. infula</i> )	Code ISP1
Cap Yellow	Cap <35mm - Aromatic Pinkgill ( <i>E. pleopodium</i> )	Code 1SP2
Cap Brown	Cap <30mm - Midsummer Pinkgill ( <i>E. solstitiale</i> )	Code ISP3

### Key J - White Pale Gills and Umbilicate Cap

Stem Fibrillose	Cap <40mm - Overlooked Pinkgill ( <i>E. neglectum</i> )	Code JSF1
Stem Polished – Cap Green	Cap <40mm - Mousepee Pinkgill ( <i>E. incanum</i> )	Code JSP1
Cap Orange	Cap <50mm - Pretty Pinkgill ( <i>E. formosum</i> )	Code ISP2
Cap Pale Brown	Cap <35mm - Ochraceous Pinkgill ( <i>E. ochromicaceum</i> )	ISP3

### Key K – Blue gills

Cap - Blue/Black	Cap <50mm - Indigo Pinkgill ( <i>E. chalybaum</i> )	Code KBB1
Blue Dark Centre	Cap <30mm - Heavenly Pinkgill ( <i>E. cruentatum</i> )	Code KBD1
Blue Yellow Centre	Cap <20mm - Bluegreen Pinkgill ( <i>E. cyaneoviridescens</i> )	KBY1

### Key L – Smooth Cap and Polished Stem

Papillate	Cap <40mm - Papillate Pinkgill ( <i>E. papillatum</i> )	Code LP1
Cap - Dark Brown	Cap <35mm - Barefoot Pinkgill ( <i>E. fernandae</i> )	Code LDB1
Pale Brown	Cap <50 - Cubic Pinkgill ( <i>E. rhombisporum</i> )	Code LLB1

### Key M Smooth Cap with Umbo

Smell – Bubblegum/Chemical	Cap <55mm - Bubblegum Pinkgill ( <i>E. ameides</i> )	Code MSB1
None – Dark Brown – Free Gills	Cap <60mm - Spring Pinkgill ( <i>E. vernum</i> )	Code MDB1
Smell Mealy –	Cap <70mm - A number of species here	Code ISM1

### Key N – Umbilicate

Gills and base of stem turn red when bruised	Cap <50mm - Blushing Pinkgill ( <i>E. turci</i> )	Code NR1
Gills and base of stem do not turn red when bruised	Cap <50mm - Orangepeel Pinkgill ( <i>E. pseudoturci</i> )	Code NNR1

### Key O – Stem with Fibrils

Fibrils - Silver/grey – Hairs at base – Cap Grey	Cap <30 - Webbed Pinkgill ( <i>E. araneosum</i> )	Code OG1
Brown	Cap <60 - Sepia Pinkgill ( <i>E. jubatum</i> )	Code OB1

### Key P – Polished Stem

Cap Striate – Smell Mealy	Cap <35mm - Barefoot Pinkgill ( <i>E. fernandae</i> )	Code PS1
Cap not striate Pale Brown	Cap <35 - Shiny Pinkgill ( <i>E. nitens</i> )	Code PNS1

Key A



Key B



Key C



Key D



Key E



Key F



Key G



Key H



Key I



Key J



Key K



Key L



Key M



Key N



Key O



Key P

