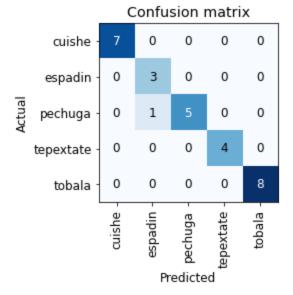


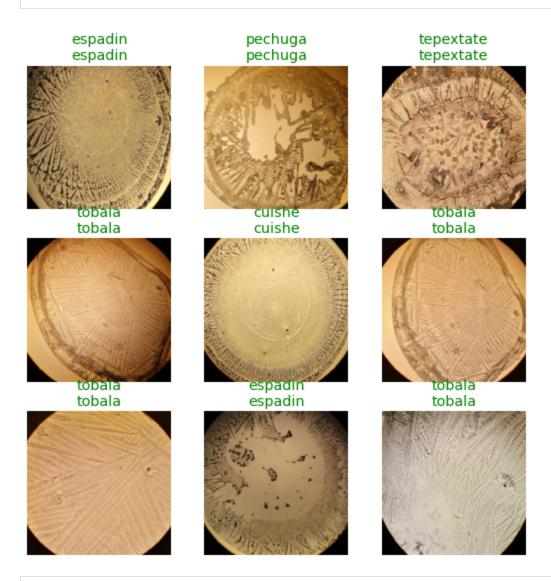
```
In [1]:
         import sys
         import os
         sys.path.insert(0, os.path.abspath('..'))
         sys.path.insert(0, os.path.abspath('..\\scripts'))
         from fastai.vision.widgets import *
         from fastbook import *
         from helpers import *
In [2]:
         path = Path(get_data_dir())
         files = get_image_files(path)
         mezcal = DataBlock(blocks=(ImageBlock, CategoryBlock),
                            get_items=get_image_files,
                            splitter=RandomSplitter(0.2),
                            get y=parent label,
                            item_tfms=RandomResizedCrop(460),
                            batch_tfms=[*aug_transforms(size=224, max_warp=0), Normalize.from_st
         # batch size of 9 because of small dataset
         dls = mezcal.dataloaders(path, bs=9)
         print(f"The classes are: {dls.vocab}")
         learn = cnn_learner(dls, resnet34, pretrained=True, metrics=error_rate).to_fp16()
        Due to IPython and Windows limitation, python multiprocessing isn't available now.
        So `number_workers` is changed to 0 to avoid getting stuck
        The classes are: ['cuishe', 'espadin', 'pechuga', 'tepextate', 'tobala']
        C:\Users\socd0\anaconda3\lib\site-packages\torch\autocast_mode.py:141: UserWarning: User
        provided device_type of 'cuda', but CUDA is not available. Disabling
          warnings.warn('User provided device_type of \'cuda\', but CUDA is not available. Disab
        ling')
In [ ]:
         # Train
         learn.fine_tune(10)
In [ ]:
         # this should call save model instead
         learn.save("cropped_data")
In [5]:
         # If loading a saved model just run cells 1,2 and 5 and then continue
         learn = cnn_learner(dls, resnet34, pretrained=True, metrics=error_rate).to_fp16()
         learn.load("cropped_data")
        <fastai.learner.Learner at 0x24601183430>
Out[5]:
In [6]:
         interp = ClassificationInterpretation.from_learner(learn)
         interp.plot_confusion_matrix()
        C:\Users\socd0\anaconda3\lib\site-packages\torch\cuda\amp\grad_scaler.py:115: UserWarnin
        g: torch.cuda.amp.GradScaler is enabled, but CUDA is not available. Disabling.
```

warnings.warn("torch.cuda.amp.GradScaler is enabled, but CUDA is not available. Disab

ling.")



In [7]: learn.show\_results()



In [8]: # Because we trained in fp16
learn.to\_fp32()

Out[8]: <fastai.learner.Learner at 0x24601183430>

In [10]: learn.export("../models/v3.pkl")