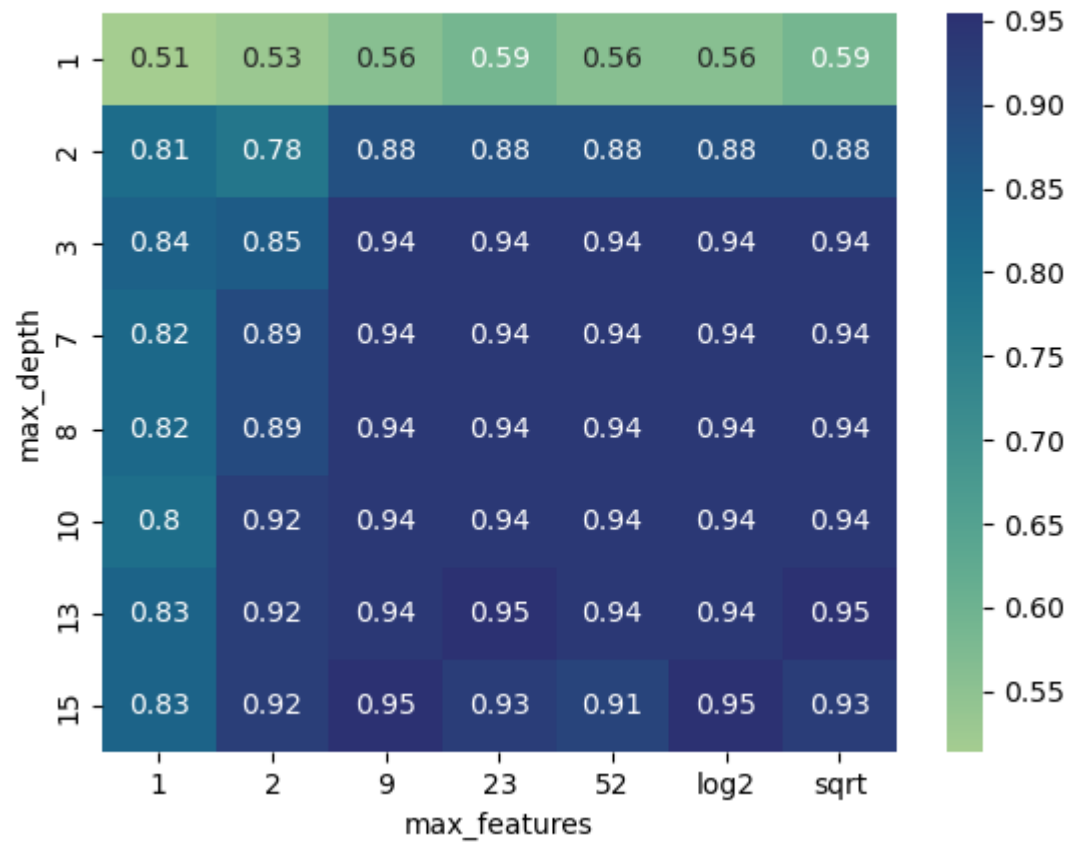
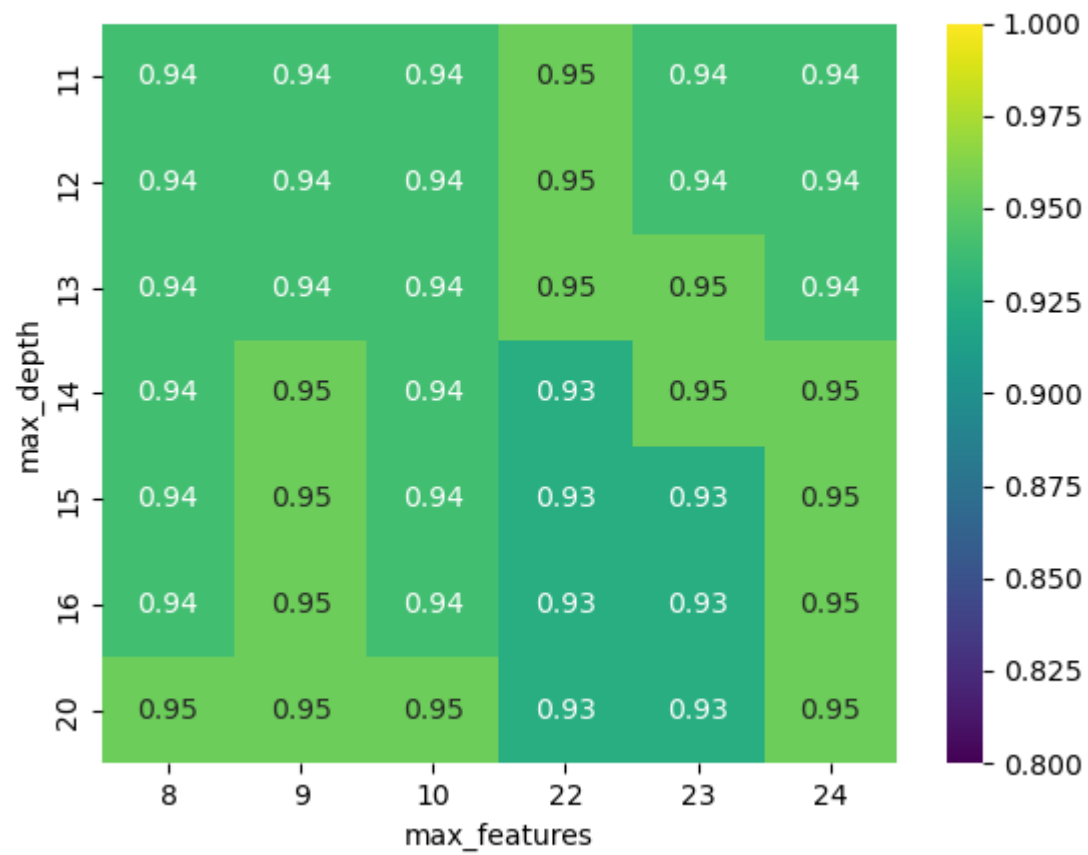
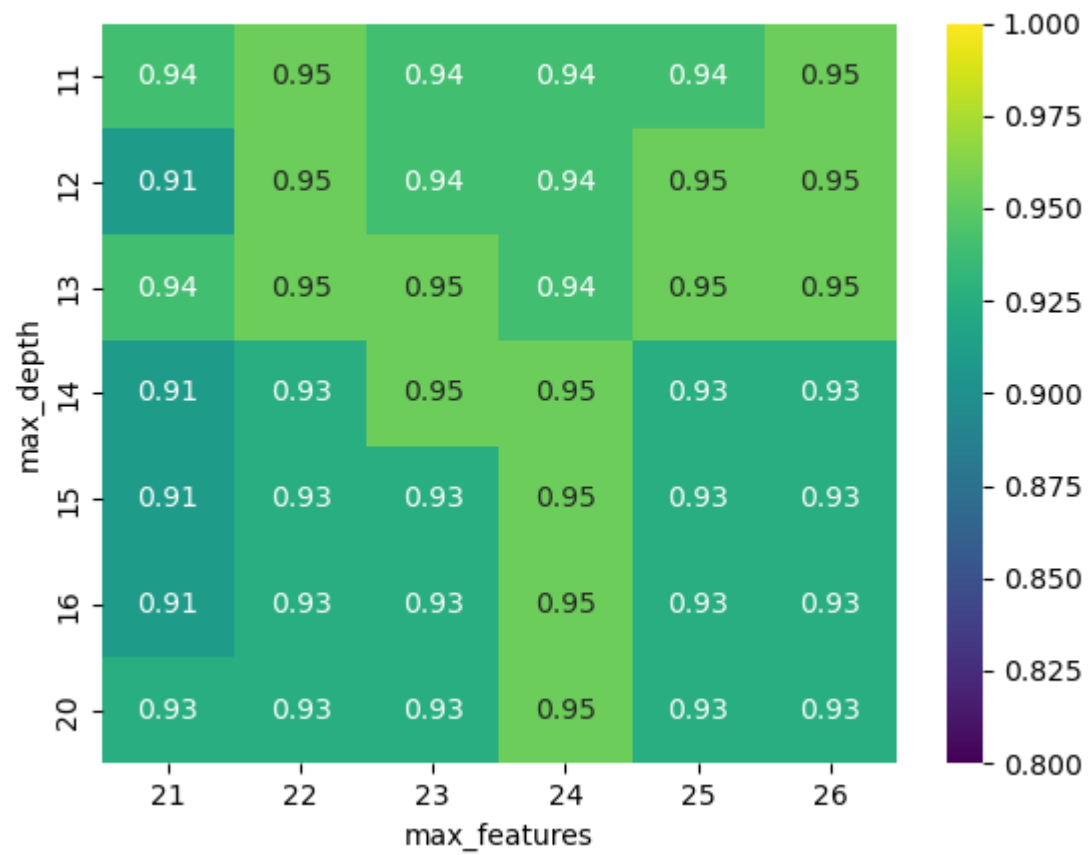


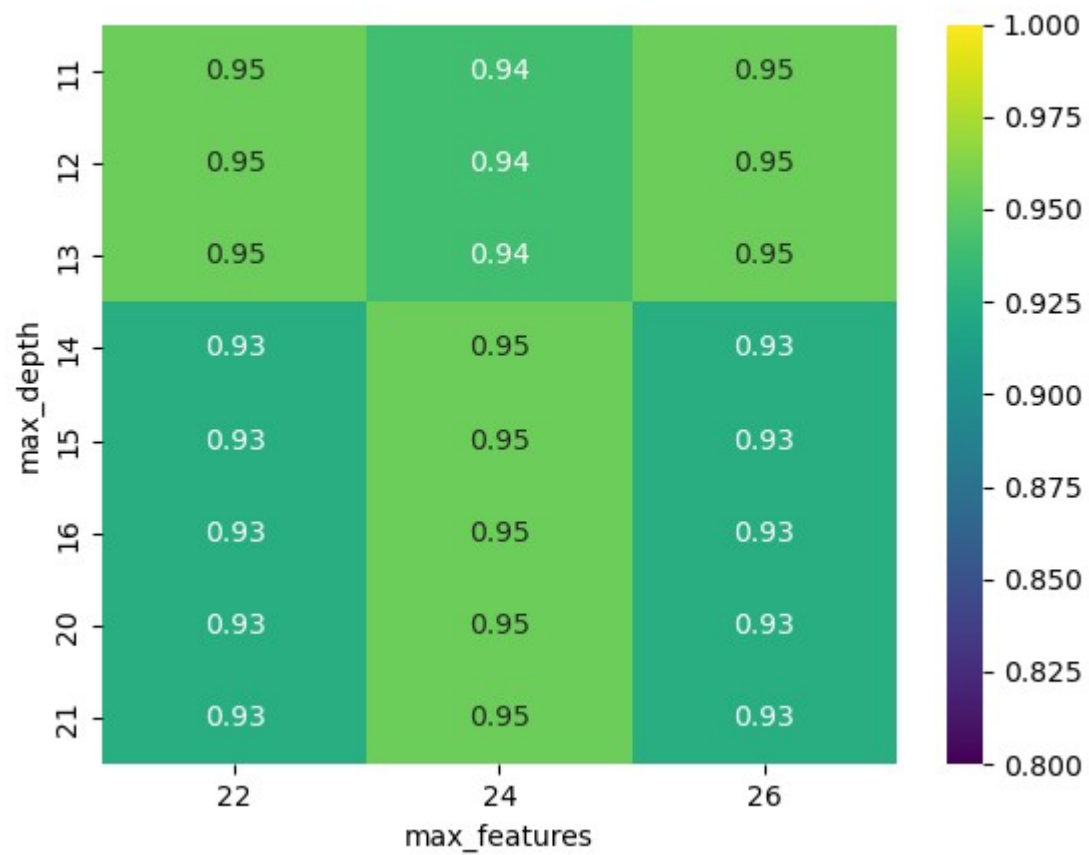
$\text{Log2}(522) == 9$

$\text{SQRT}(522) == 23$

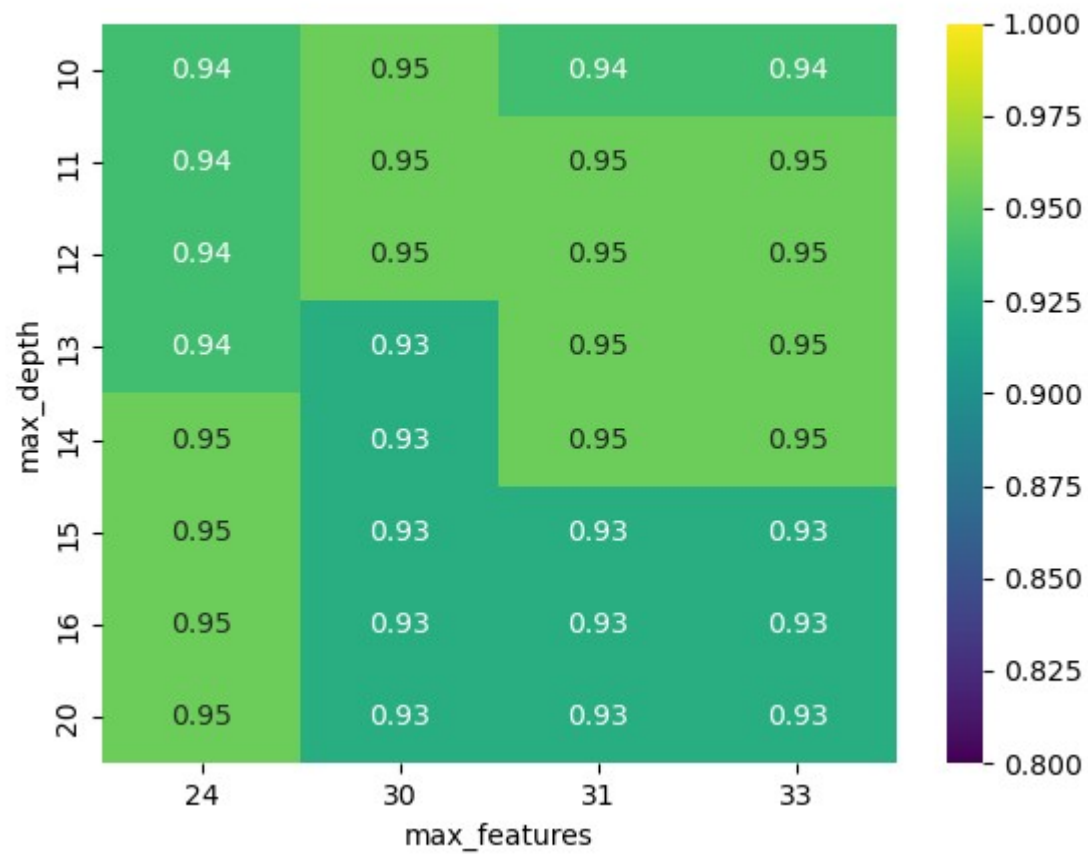








## Verification



New gridsearch:

```
grid = {'n_estimators': [100],  
       'max_features': [23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33],  
       'max_depth': [10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20],  
       'min_samples_split': [2],  
       'min_samples_leaf' : [1],  
       'random_state': [18]}
```

Best params caspofungin:

```
{'max_depth': 12, 'max_features': 30,  
'min_samples_leaf': 1, 'min_samples_split': 2,  
'n_estimators': 100, 'random_state': 18}
```

Train Balanced Acc : 0.9898648648648649

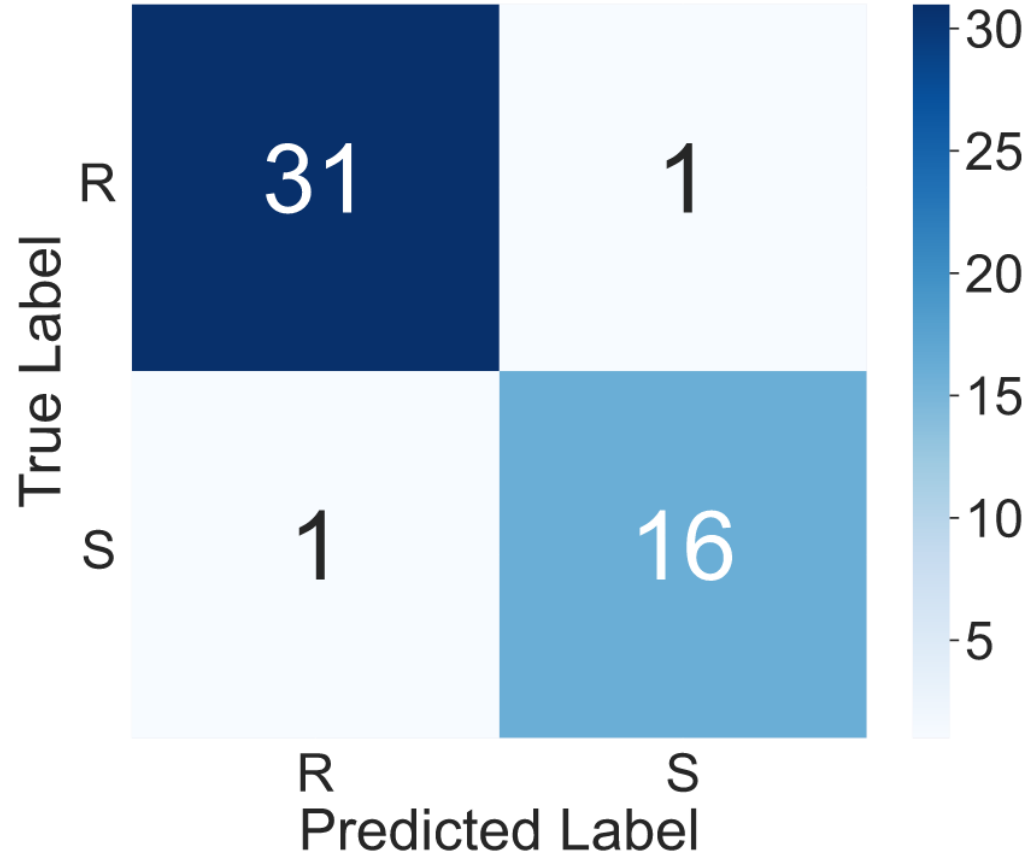
Test Balanced Acc : 0.9549632352941176



# casprofungin Confusion Matrix

Acc : 0.955

MCC : 0.910



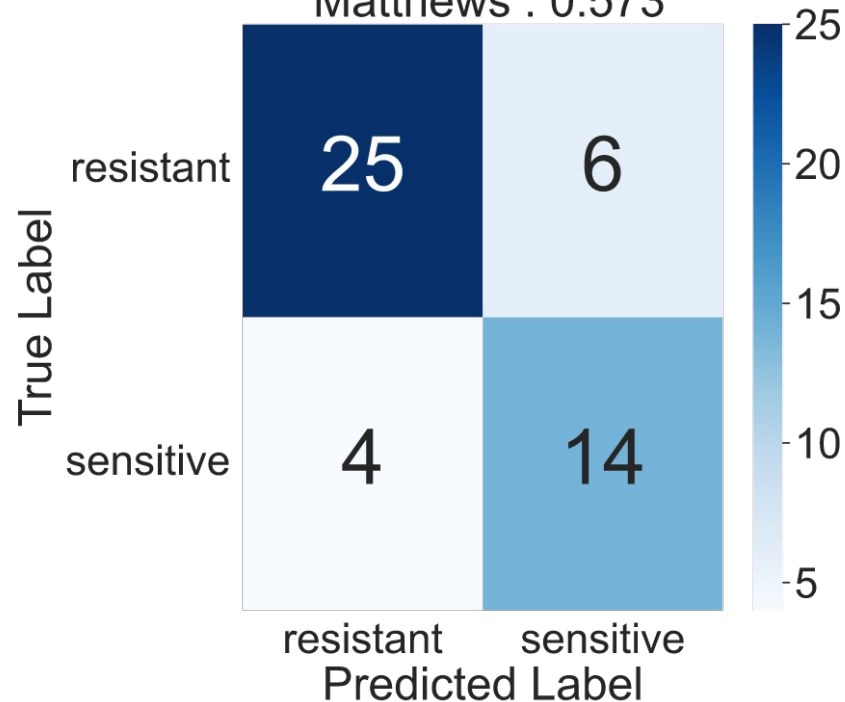
Best params anidulafungin:

```
{'max_depth': 20, 'max_features': 27,  
'min_samples_leaf': 1, 'min_samples_split': 2,  
'n_estimators': 100, 'random_state': 18}
```

anidulafungin Confusion Matrix

Accuracy : 0.796

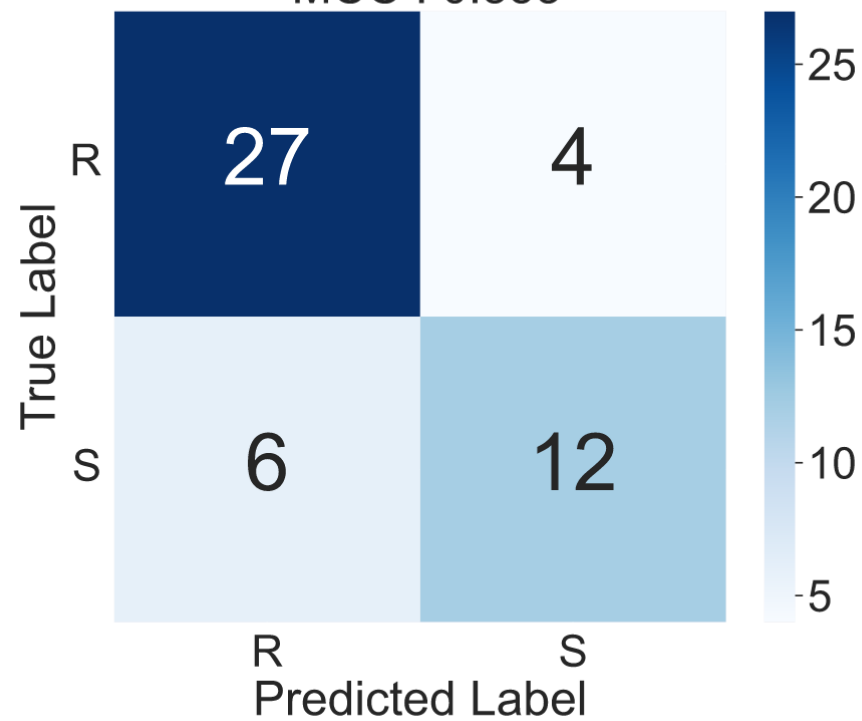
Matthews : 0.573



anidulafungin Confusion Matrix

Acc : 0.769

MCC : 0.553



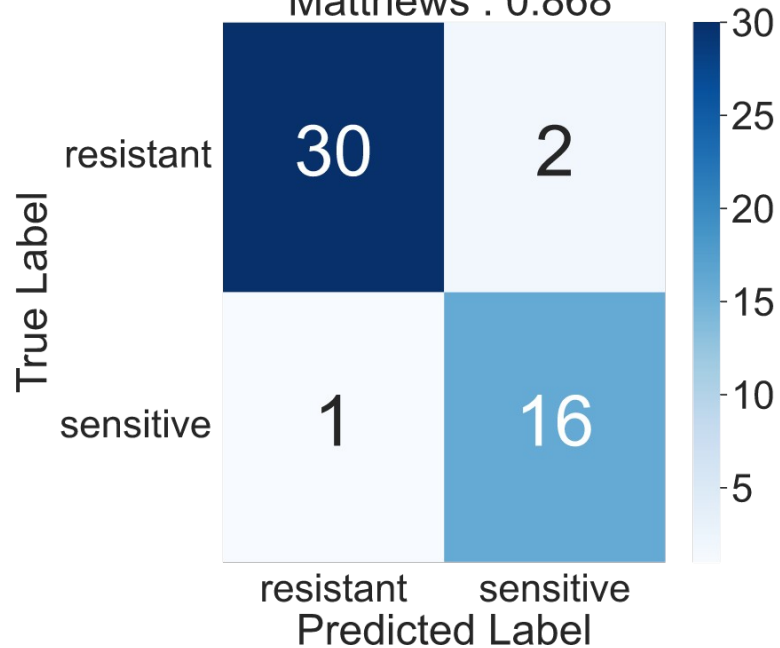
Best params micafungin:

```
{'max_depth': 12, 'max_features': 28,  
'min_samples_leaf': 1, 'min_samples_split': 2,  
'n_estimators': 100, 'random_state': 18}
```

micafungin Confusion Matrix

Accuracy : 0.939

Matthews : 0.868



micafungin Confusion Matrix

Acc : 0.908

MCC : 0.790

