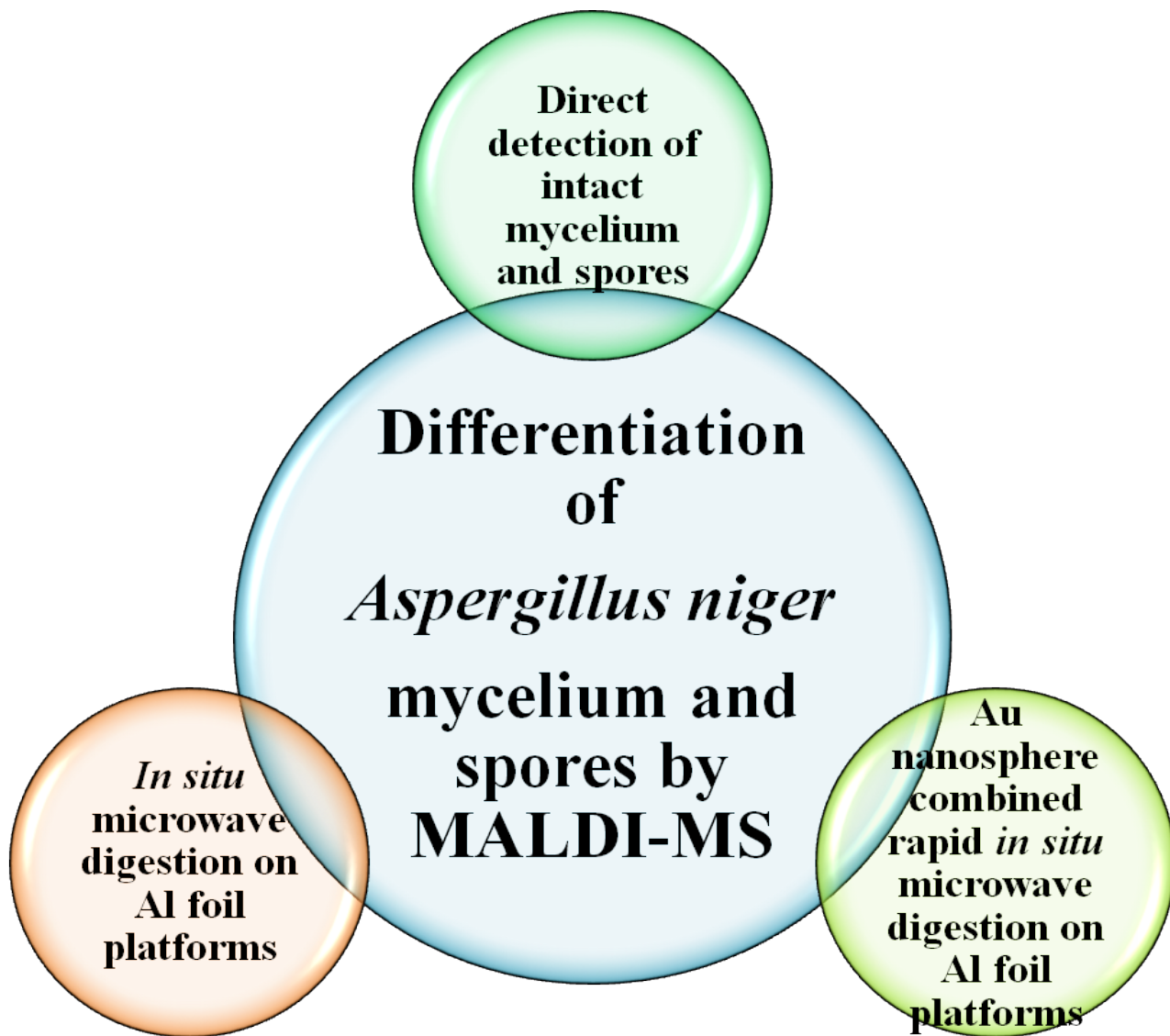


1 Fig. S1

2



3

4

5

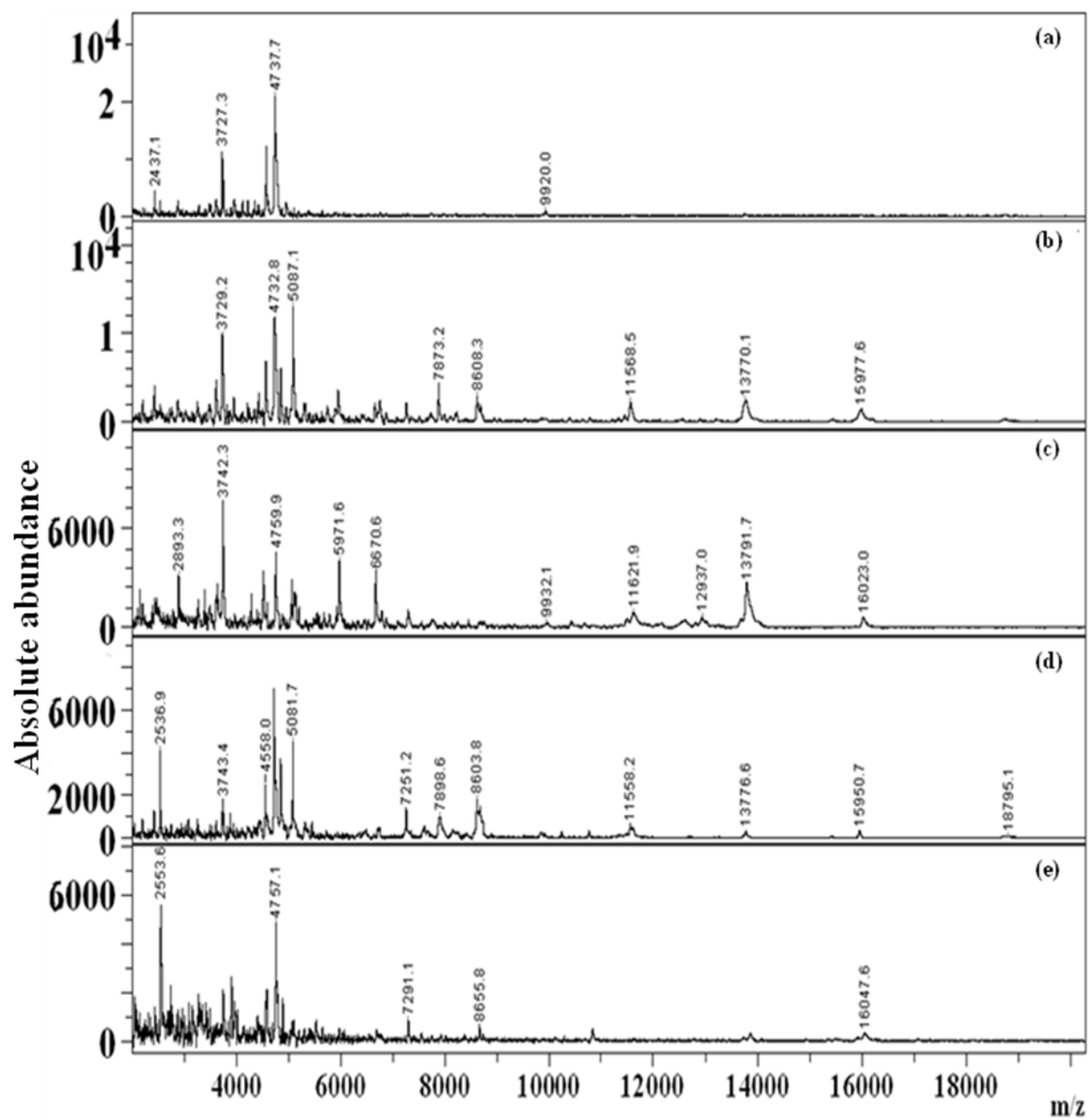
6

7

8

9 Fig. S2

10

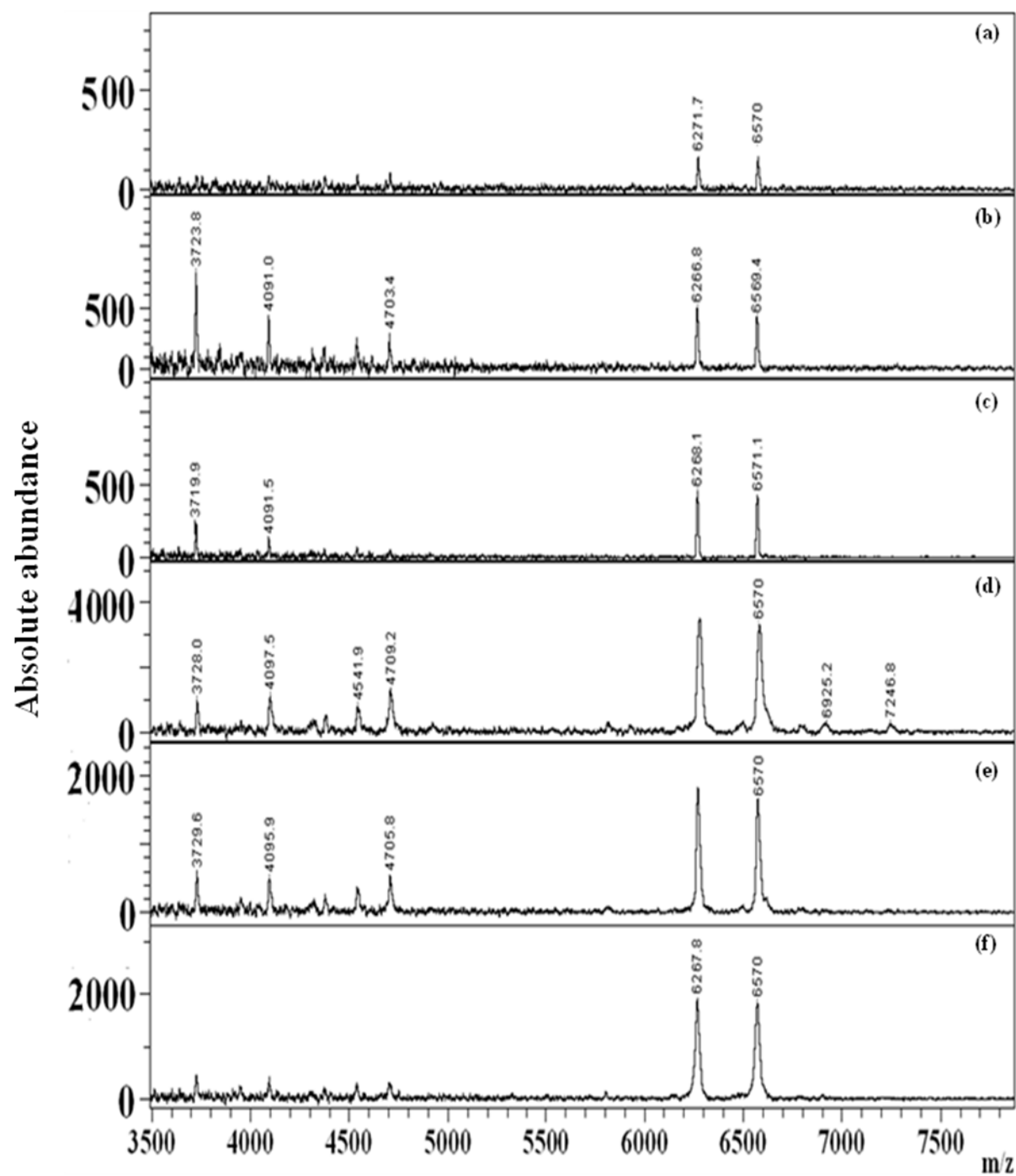


32

33

34 **Fig S3**

35



5

5

5

5

56

57

58 **Fig S4**

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

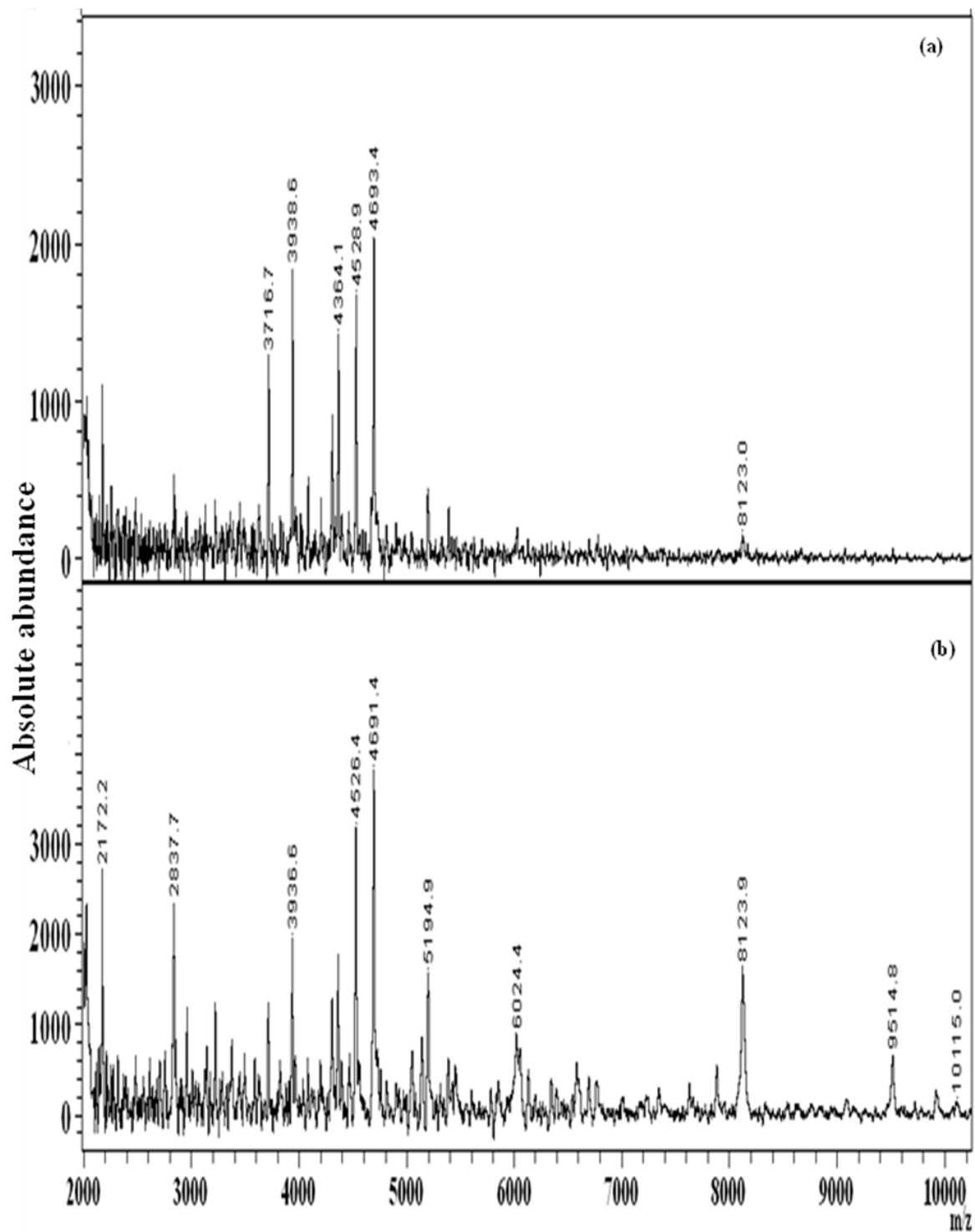
75

76

77

78

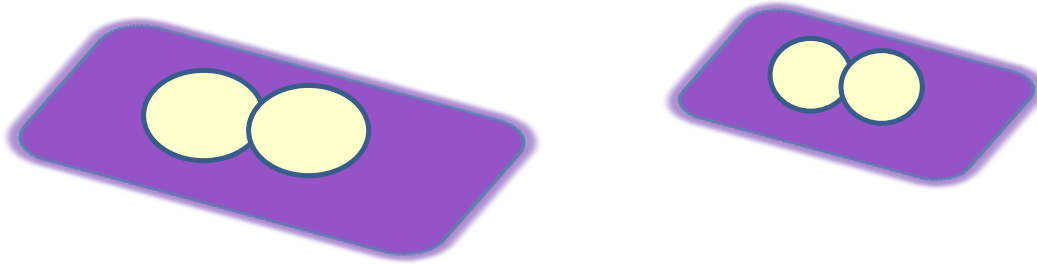
79



80

81 Fig S5

Al foil enabled microwave digestion



82

Au nanosphere accelerated Al foil enabled microwave digestion- the sandwich heating effect

83

84

85

86

87

88

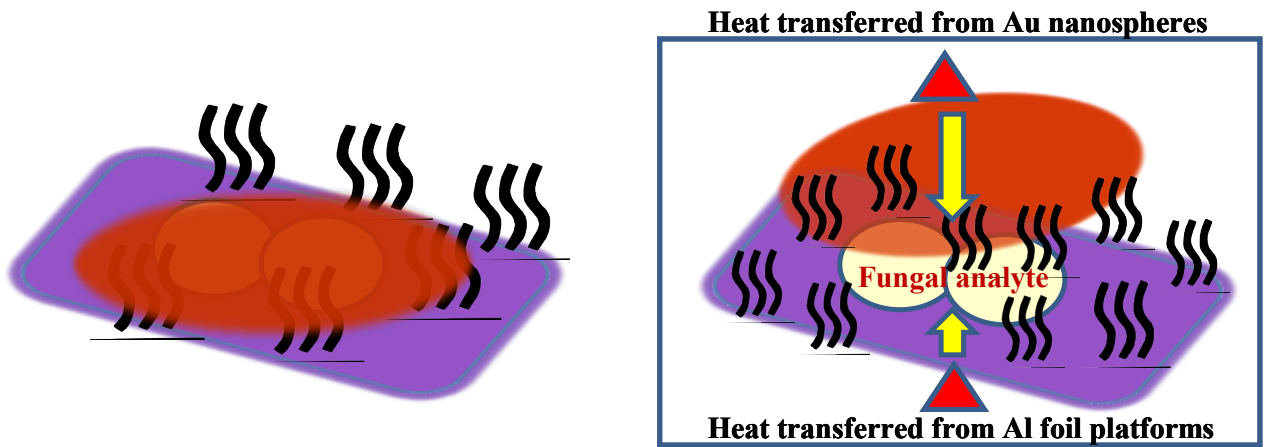
89

90

91

92

93



94

95

96

97 **Table S1. Optimizing the Al foil platforms sizes to prevent arcing during microwave**
98 **digestion**

99

Al foil size	Sparking/Arcing in Microwave (3min)
10 x10 mm	No
20 x 20 mm	Yes (in 1 min)
30 x 30 mm	Yes (<1 min)
50 x 50 mm	Yes (5 sec)

100

101

102