

Table 2: Arsenic compounds in some mushrooms belonging to Agaricaceae and Lepiotaceae ($\mu\text{g g}^{-1}$ dry weight); Individual metabolites are given as percentage of sum of species in methanol extract.

Mushroom	Total	Sum of species	As(III)	DMA	AB	MA	As(V)	TETRA	Unknown ¹
<i>Macrolepiota procera</i>	0.42±0.04	0.1	trace	trace	100%	trace	trace		
<i>Leucocoprinus badhamii</i>	2.9±0.7	2.6	trace	47%	49%	trace	2%	trace	2%(460)
<i>Agaricus abruptibulbus</i>	3.49±0.45	3.0	1%	3%	88%	5%	3%		
<i>Agaricus bisporus</i>	1.00±0.03	0.8	-	27%	55%	6%	12%		
<i>Agaricus campester</i>	1.32±0.17	1.3	trace	trace	96%	trace	-	4%	
<i>Agaricus elvensis</i>	2.43±0.29	2.6	2%	4%	84%	2%	4%		4%(335)
<i>Agaricus fuscofibrillosus</i>	2.54, 2.81	2.7	trace	4%	95%	-	1%		
<i>Agaricus liliceps</i>	1.78±0.08	2.3	6%	24%	66%	-	3%		1%(460)
<i>Agaricus macrosporus</i>	3.32±0.36	2.4	-	8%	85%	4%	3%		
<i>Agaricus silvicola</i>	6.2±0.5	7.2	1%	4%	90%	-	3%		2%(460)
<i>Agaricus subrutilescens</i>	10.8±0.4	10.4	0.5%	1.5%	96%	1%	1%		

¹ For unknown compounds retention times are given in parentheses.

Table 3: Distribution of arsenic compounds in mycelia grown for 39 days on potato dextrose agar spiked with arsenic compounds and in growth media (PDA) that had been in contact with the mycelia for 39 days, expressed as % of the sum of species for each sample.

Compound added	Sample	As(III)	AB	DMA	As(V)	MA	TETRA	TMAO
As(III)	Mycelium	78.3	b.d. ¹	b.d.	21.7	b.d.	b.d.	b.d.
	PDA	80.2	b.d.	b.d.	19.8	b.d.	b.d.	b.d.
As(V)	Mycelium	75.7	b.d.	b.d.	24.3	b.d.	b.d.	b.d.
	PDA	79.2	b.d.	b.d.	20.8	b.d.	b.d.	b.d.
MA	Mycelium	b.d.	b.d.	16.8	b.d.	83.2	b.d.	b.d.
	PDA	b.d.	b.d.	6.8	b.d.	93.2	b.d.	b.d.
DMA	Mycelium	1.0	b.d.	99.0	b.d.	b.d.	b.d.	b.d.
	PDA	b.d.	b.d.	100	b.d.	b.d.	b.d.	b.d.
AB	Mycelium	b.d.	100	b.d.	b.d.	b.d.	b.d.	b.d.
	PDA	b.d.	100	b.d.	b.d.	b.d.	b.d.	b.d.
TETRA	Mycelium	b.d.	b.d.	b.d.	b.d.	b.d.	100	b.d.
	PDA	b.d.	b.d.	b.d.	b.d.	b.d.	100	b.d.
TMAO	Mycelium	b.d.	trace	trace	b.d.	b.d.	b.d.	100
	PDA	b.d.	b.d.	4.0	b.d.	b.d.	b.d.	96.0

¹ b.d.: below the limit of detection (representing about <0.1–0.3%)