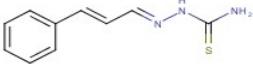
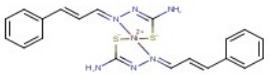
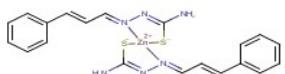
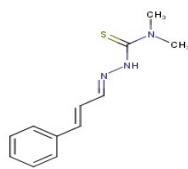
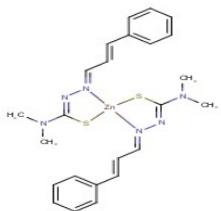
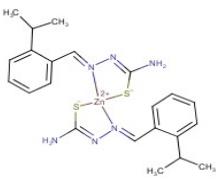
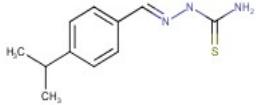
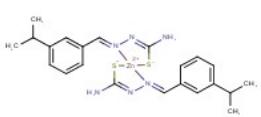
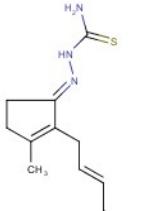
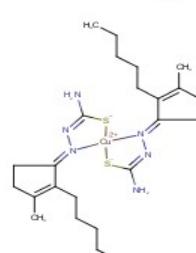
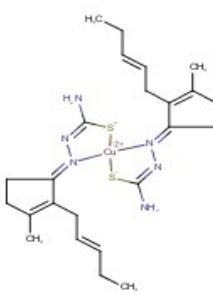
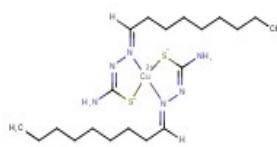
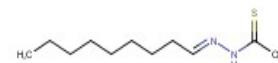
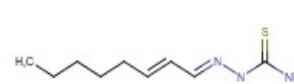
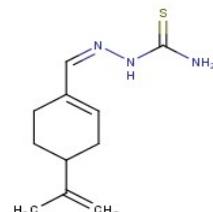


**Table 2S**

Compounds effective in inhibiting aflatoxin accumulation more than 50% at the concentration 50 µM					
Compound	Structure	MW	Formula	Group	A.I. (%)
2-acetylthiophene thiosemicarbazone		199,29	C7H9N3S2	2-Acetylthiophene	58,3
Cu(II) 2-acetylthiophene bishthiosemicarbazone		461,12	C14H17CuN6S4	2-Acetylthiophene	56,5
Zn(II) 2-acetylthiophene bishthiosemicarbazone		461,94	C14H16N6S4Zn	2-Acetylthiophene	60,4
Mn(II) 2-acetylthiophene bishthiosemicarbazone		451,50	C14H16MnN6S4	2-Acetylthiophene	61,0
Cu(II) Quinoline carboxaldehyde bishthiosemicarbazone		522,11	C22H18CuN8S2	2-Quinolinecarbox-aldehyde	55,7
Anthraquinone-2-carboxylic acid		252,23	C15H8O4	Anthraquinone	56,0
benzaldehyde 4,4'-dimethyl thiosemicarbazone		207,30	C10H13N3S	Benzaldehyde	76,0
Cu(II) 1-(3-methoxyphenyl)heptan-1-one bishthiosemicarbazone		648,39	C30H44CuN6O2S2	Benzaldehyde	82,5

Cinnamaldehyde thiosemicarbazone		205,28	C10H11N3S	Cinnamaldehyde	73,1
Ni(II) Cinnamaldehyde bisthiosemicarbazonate		467,24	C20H20N6NiS2	Cinnamaldehyde	95,0
Zn(II) Cinnamaldehyde bisthiosemicarbazonate		473,92	C20H20N6S2Zn	Cinnamaldehyde	99,0
Cinnamaldehyde 4,4-dimethyl thiosemicarbazone		233,33	C12H15N3S	Cinnamaldehyde	100
Zn(II) Cinnamaldehyde bis 4,4-dimethyl thiosemicarbazonate		530,03	C24H28N6S2Zn	Cinnamaldehyde	75,0
Zn(II) 1- isopropylbenzaldehyde bisthiosemicarbazonate		506,01	C22H28N6S2Zn	Cuminaldehyde	55,3
Cuminaldehyde thiosemicarbazone		221,32	C11H15N3S	Cuminaldehyde	100
Ni(II) Cuminaldehyde bisthiosemicarbazonate		499,32	C22H28N6NiS2	Cuminaldehyde	91,5
Zn(II) 2- isopropylbenzaldehyde bisthiosemicarbazonate		506,01	C22H28N6S2Zn	Cuminaldehyde	93,8

Zn(II) 1-isopropylbenzaldehyde bis thiosemicarbazone diacetate		625,10	C26H35N6O4S2Zn	Cuminaldehyde	69,3
2-isopropylbenzaldehyde thiosemicarbazone		221,32	C11H15N3S	Cuminaldehyde	67,0
Cu(II) 2-isopropylbenzaldehyde bishiosemicarbazone		505,18	C22H29CuN6S2	Cuminaldehyde	65,9
Zn(II) Cuminaldehyde bishiosemicarbazone		506,01	C22H28N6S2Zn	Cuminaldehyde	97,1
Cu(II) 2-isopropylbenzaldehyde-2-methylthiosemicarbazone diacetate		652,33	C28H40CuN6O4S2	Cuminaldehyde	71,4
Cu(II) fenchone bishiosemicarbazone		512,24	C22H36CuN6S2	Fenchone	62,0
Cu(II) heptanal bishiosemicarbazone		436,14	C16H32CuN6S2	Heptanal	62,8
Dihydrojasnone thiosemicarbazone		239,38	C12H21N3S	Jasmone	51,5

Jasmone thiosemicarbazone		237,37	C12H19N3S	Jasmone	88,0
Cu(II) Dihydrojasnone bisthiosemicarbazone		540,29	C24H40CuN6S2	Jasmone	66,0
Cu(II) jasmone bisthiosemicarbazone		536,26	C24H36CuN6S2	Jasmone	78,0
Cu(II) nonanal bisthiosemicarbazone		492,25	C20H40CuN6S2	Nonanal	90,0
Nonanal thiosemicarbazone		214,37	C11H22N2S	Nonanal	91,0
Octanal thiosemicarbazone		199,32	C9H17N3S	Octanal	76,0
Perillaldehyde thiosemicarbazone		223,34	C11H17N3S	Perillaldehyde	78,0

Ni(II) perillaldehyde bisthiosemicarbazone		503,35	C22H32N6NiS2	Perillaldehyde	85,2
Cu(II) undecanal bisthiosemicarbazone		548,36	C24H48CuN6S2	Undecanal	84,8
Undecanal thiosemicarbazone		242,43	C13H26N2S	Undecanal	72,0
Cu(II) apocynin bisthiosemicarbazone		540,12	C20H24CuN6O4S2	Vanillin	52,0
Cu(II) 3,4-dimethoxybenzaldehyde bisthiosemicarbazone		540,12	C20H24CuN6O4S2	Vanillin	62,0
Cu(II) bisvanillin thiosemicarbazone		958,56	C36H38CuN12O8S4	Vanillin	53,0
Cu(II) 3,4-dimethoxybenzaldehyde bis 4,4'-dimethyl thiosemicarbazone		596,22	C24H32CuN6O4S2	Vanillin	61,4

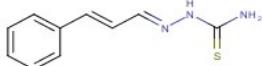
Compounds effective in inhibiting aflatoxin accumulation more than 50% at the concentration 100 µM					
Compound	Structure	MW	Formula	Group	A.I. (%)
2-acetylthiophene thiosemicarbazone		199,29	C7H9N3S2	2-Acetylthiophene	88,4

Cu(II) 2-acetylfurane bisthiosemicarbazone		427,99	C14H16CuN6O2S2	2-Acetylthiophene	65,7
Cu(II) 2-acetylthiophene bisthiosemicarbazone		461,12	C14H17CuN6S4	2-Acetylthiophene	88,6
Zn(II) 2-acetylthiophene bisthiosemicarbazone		461,94	C14H16N6S4Zn	2-Acetylthiophene	85,4
Cu(II) acetylthiophene bisthiosemicarbazone		451,50	C14H16MnN6S4	2-Acetylthiophene	92,0
Cu(II) Quinoline carboxaldehyde bisthiosemicarbazone		522,11	C22H18CuN8S2	2-Quinoline carboxaldehyde	88,0
Anthraquinone-2- carboxylic acid		252,23	C15H8O4	Anthraquinone	80,0
Benzaldehyde 4,4'-dimethyl thiosemicarbazone		207,30	C10H13N3S	Benzaldehyde	90,0
Cu(II) benzaldehyde 4,4'-dimethyl thiosemicarbazone		476,12	C20H24CuN6S2	Benzaldehyde	67,0
Cu(II) 1-(3- methoxyphenyl) heptan-1-one bisthiosemicarbazone		648,39	C30H44CuN6O2S2	Benzaldehyde	95,2

Cu(II) Camphorquinone  
bisthiosemicarbazone

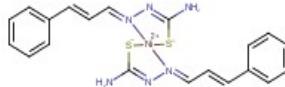
373,98 C12H18CuN6S2 Camphorquinone 53,0

Cinnamaldehyde  
thiosemicarbazone



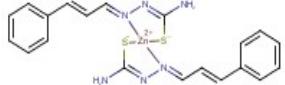
205,28 C10H11N3S Cinnamaldehyde 79,0

Ni(II) Cinnamaldehyde  
bisthiosemicarbazone



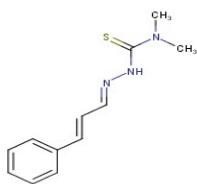
467,24 C20H20N6NiS2 Cinnamaldehyde 100

Zn(II) Cinnamaldehyde  
bisthiosemicarbazone



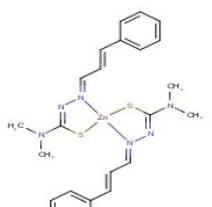
473,92 C20H20N6S2Zn cinnamaldehyde 100

Cinnamaldehyde  
4,4-dimethyl  
thiosemicarbazone



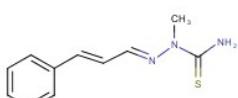
233,33 C12H15N3S cinnamaldehyde 100

Zn(II) Cinnamaldehyde  
bis 4,4-dimethyl  
thiosemicarbazone



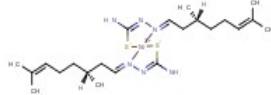
530,03 C24H28N6S2Zn Cinnamaldehyde 100

Cinnamaldehyde  
2-methyl  
thiosemicarbazone



219,31 C11H13N3S Cinnamaldehyde 64,0

Ni(II) citronellal  
bisthiosemicarbazone



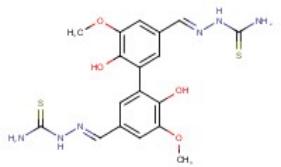
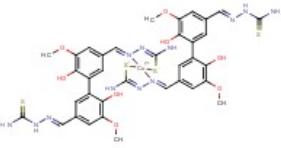
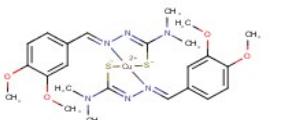
511,42 C22H40N6NiS2 Citronellal 82,1

Zn(II) 1-isopropylbenzaldehyde bithiosemicarbazone		506,01	C22H28N6S2Zn	Cuminaldehyde	100
Cuminaldehyde thiosemicarbazone		221,32	C11H15N3S	Cuminaldehyde	100
Ni(II) Cuminaldehyde bithiosemicarbazone		499,32	C22H28N6NiS2	Cuminaldehyde	96,0
Zn(II) 2-isopropylbenzaldehyde bithiosemicarbazone		506,01	C22H28N6S2Zn	Cuminaldehyde	100
Zn(II) 1-isopropylbenzaldehyde bis thiosemicarbazone diacetate		625,10	C26H35N6O4S2Zn	Cuminaldehyde	81,9
2-isopropylbenzaldehyde thiosemicarbazone		221,32	C11H15N3S	Cuminaldehyde	97,0
Cu(II) 1-isopropylbenzaldehyde bithiosemicarbazone		505,18	C22H29CuN6S2	Cuminaldehyde	73,5
Cu(II) 2-isopropylbenzaldehyde bithiosemicarbazone		505,18	C22H29CuN6S2	Cuminaldehyde	80,8
Zn(II) Cuminaldehyde bithiosemicarbazone		506,01	C22H28N6S2Zn	Cuminaldehyde	100

3-isopropyl benzaldehyde-2-methyl- thiosemicarbazone		235,35	C12H17N3S	Cuminaldehyde	62,7
Cu(II) 2-isopropyl benzaldehyde-2-methyl- thiosemicarbazone di acetate		652,33	C28H40CuN6O4S2	Cuminaldehyde	86,7
Decanal thiosemicarbazone		229,39	C11H23N3S	Decanal	62,0
Cu(II) fenchone bisthiosemicarbazone		512,24	C22H36CuN6S2	Fenchone	84,0
Cu(II) heptanal bisthiosemicarbazone		436,14	C16H32CuN6S2	Heptanal	85,5
Heptanal thiosemicarbazone		186,32	C9H18N2S	Heptanal	51,0
Valerophenone thiosemicarbazone		235,35	C12H17N3S	Valerophenone	55,0
Dihydrojasnone thiosemicarbazone		239,38	C12H21N3S	Jasmine	63,2

Jasmone thiosemicarbazone		237,37	C12H19N3S	Jasmone	90,0
Cu(II) Dihydrojasmone bisthiosemicarbazone		540,29	C24H40CuN6S2	Jasmone	80,0
Cu(II) jasmone bisthiosemicarbazone		536,26	C24H36CuN6S2	Jasmone	97,0
Cu(II) nonanal bisthiosemicarbazone		492,25	C20H40CuN6S2	Nonanal	100
Nonanal thiosemicarbazone		214,37	C11H22N2S	Nonanal	100
Octanal thiosemicarbazone		199,32	C9H17N3S	Octanal	96,0
Perillaldehyde thiosemicarbazone		223,34	C11H17N3S	Perillaldehyde	87,3

Ni(II) Perillaldehyde bisthiosemicarbazone		503,35	C22H32N6NiS2	Perillaldehyde	90,1
Plumbagin thiosemicarbazone		261,30	C12H11N3O2S	Plumbagin	83,0
Cu(II) syringaldehyde bisthiosemicarbazone		572,11	C20H24CuN6O6S2	Syringaldehyde	61,0
Cu(II) 3,4,5- trimethoxybenzaldehyde bisthiosemicarbazone		600,17	C22H28CuN6O6S2	Syringaldehyde	76,0
Cu(II)undecanal bisthiosemicarbazone		548,36	C24H48CuN6S2	Undecanal	96,0
Undecanal thiosemicarbazone		242,43	C13H26N2S	Undecanal	93,0
Cu(II) apocynin bisthiosemicarbazone		540,12	C20H24CuN6O4S2	Vanillin	72,0
Cu(II) 3,4- dimethoxybenzaldehyde bisthiosemicarbazone		540,12	C20H24CuN6O4S2	Vanillin	80,0

Bisvanillin thiosemicarbazone		448,52	C18H20N6O4S2	Vanillin	61,0
Cu(II) bisvanillin thiosemicarbazone		958,56	C36H38CuN12O8S4	Vanillin	77,0
Cu(II) 3,4- dimethoxybenzaldehyde bis 4,4'-dimethyl thiosemicarbazone		596,22	C24H32CuN6O4S2	Vanillin	84,6