

CONTENT

1	Introduction	4
2	Grasses	4
3	Mycotoxins and ergosterol	4
4	Low Molecular Mass Thiols	6
5	Evaluation of mycotoxins and ergosterol	8
5.1	Description of the site	8
5.2	Analytic methods	9
5.2.1	ELISA	9
5.2.2	H PLC	9
5.3	First experiment	10
5.4	Second experiment	19
5.4.1	Evaluation of mycotoxins in green matter of grasses	19
5.4.2	Evaluation of mycotoxins in silages	26
5.4.2.1	Silages preparation	26
5.4.2.2	Mycotoxins in Silages	27
6	Evaluation of low molecular mass thiols	30
6.1	Chemicals	30
6.2	Plant Material and Cultivation	30
6.2.1	Description of the site	30
6.2.2	Experimental plots	31
6.2.3	Control pot experiment	31
6.2.4	Description of the species	31
6.3	Description of Fungal Disease Identification and Assessment	32
6.4	Sample Preparation for Fresh Weight Analysis	32
6.5	Sample Preparation for Low Molecular Mass Determination	32
6.6	Determination of Low Molecular Mass Thiols	33
6.7	Descriptive Statistics	33
6.8	Mold Influence on Plants	33
6.9	Plant Development	34
6.10	Low Molecular Mass Thiols	36
6.11	Interactions	38
7	Conclusions	40
	LITERATURE	41