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Supplementary data Table 1. Concentrations of chlorophyll *a* (C*a*), chlorophyll *b* (C*b*), total carotenoids (TC) and malonaldehyde (MDA) in white oat plants at 21 days after application (DAA) of herbicides applied alone or previously treated with a metabolization or conjugation inhibitor. 2021/2021 season, Lages – SC.

Treatment	C*a*	C*b*	CT	MDA
	----------µg g FM^{-1}----------			nmol ml^{-1}
Control	100.8 ^{ns}	25.5 ^{ns}	25.2 ^{ns}	4.6 ^{ns}
Malathion	106.1	31.2	26.1	4.8
NBD	113.5	32.9	27.7	4.3
Mesotrione (1xD)	104.0	30.4	26.0	4.8
Mesotrione + Malathion	111.6	31.9	29.3	4.4
Mesotrione+NBD	118.7	34.7	29.3	5.0
Tembotrione (1xD)	103.0	30.0	25.9	4.8
Tembotrione+Malathion	104.8	30.3	26.0	4.2
Tembotrione+NBD	94.9	27.3	24.8	4.2
p-value	0.084^{ns}	0.135^{ns}	0.055^{ns}	0.467^{ns}
C.V. (%)	9.5	12.6	8.2	13.0

^{ns} non-significant by the F-test (p>0.05); identical letters in the column do not differ from each other (p>0.05) by Tukey's test; CV: coefficient of variation; FM, fresh mass.

Supplementary data Table 2. Plant height, harvest index (HI), number of panicles per m² (NPM), number of spikelets per panicle (NSP) and number of grains per spikelet (NGS) of white oat according to the application of herbicides alone or previously treated with a metabolism or conjugation inhibitor. 2021/2021 season, Lages – SC.

Treatment	Height (cm)	HI (-)	NPM (n°)	NSP (n°)	NGS (n°)
Control	109.0 ^{ns}	0.47 ^{ns}	520.8 ^{ns}	32.0 ^{ns}	1.0 ^{ns}
Malathion	109.3	0.47	499.2	33.7	1.0
NBD	108.8	0.47	492.5	29.5	1.2
Mesotrione (1xD)	107.0	0.48	510.8	29.8	1.1
Mesotrione + Malathion	105.4	0.48	545.8	29.0	1.0
Mesotrione+NBD	104.4	0.48	555.0	28.0	1.1
Tembotrione (1xD)	109.0	0.47	553.3	27.4	1.2
Tembotrione+Malathion	109.1	0.45	506.7	29.1	1.1
Tembotrione+NBD	108.2	0.48	514.2	34.5	1.0
p-value	0.058^{ns}	0.524^{ns}	0.267^{ns}	0.096^{ns}	0.327^{ns}
C.V. (%)	2.2	4.2	7.8	12.0	14.5

^{ns} non-significant by the F-test (p>0.05); identical letters in the column do not differ from each other (p>0.05) by Tukey's test; CV: coefficient of variation; FM, fresh mass.

Supplementary data Table 3. Grain harvest moisture (U%), thousand grain weight (TGW) and white oat grain yield on the basis of the application of herbicides alone or previously treated with a metabolization or conjugation inhibitor. 2021/2021 season, Lages – SC.

Treatment	Humidity (%)	TGW (g)	Yield (kg ha^{-1})
Control	11.8 ^{ns}	36.4 ^{ns}	5934 ^{ns}
Malathion	12.1	36.9	6455
NBD	11.7	37.0	5751
Mesotrione (1xD)	12.3	37.0	5721
Mesotrione + Malathion	11.2	37.3	5475
Mesotrione+NBD	11.3	37.1	5524
Tembotrione (1xD)	11.8	36.9	6054
Tembotrione+Malathion	11.6	37.2	6268
Tembotrione+NBD	11.8	37.0	5974
p-value	0.833^{ns}	0.117^{ns}	0.065^{ns}
C.V. (%)	8.2	1.2	7.5

^{ns} non-significant by the F-test (p>0.05); identical letters in the column do not differ from each other (p>0.05) by Tukey's test; CV: coefficient of variation; FM, fresh mass.

Supplementary data Table 4. Percentage of grains > 2mm (G>2), hectoliter weight (HW), dehulling index (DHI) and industrial yield (Avenacor) of white oat grains produced from plants treated with application of herbicides alone or previously treated with a metabolism or conjugation inhibitor. 2021/2021 season, Lages – SC.

Treatment	G>2 (%)	HW (kg hL^{-1})	DHI (%)	Avenacor (kg ha^{-1} of caryopsis)
Control	90.7 ^{ns}	50.6 ^{ns}	75.6 ^{ns}	4072 ^{ns}
Malathion	90.5	50.5	76.0	4343
NBD	90.7	50.9	76.2	3972
Mesotrione (1xD)	90.4	49.8	75.3	3891
Mesotrione + Malathion	89.8	50.2	74.3	3766
Mesotrione+NBD	90.4	50.6	76.3	3811
Tembotrione (1xD)	90.9	50.5	74.5	4099
Tembotrione+Malathion	90.3	50.6	75.6	4275
Tembotrione+NBD	90.6	51.0	75.4	4076
p-value	0.961^{ns}	0.608^{ns}	0.109^{ns}	0.092^{ns}
C.V. (%)	1.3	1.6	1.4	6.9

^{ns} non-significant by the F-test (p>0.05); identical letters in the column do not differ from each other (p>0.05) by Tukey's test; CV: coefficient of variation.