

1 Supplementary Material for

2 Comparing modified substrate induced respiration with selective inhibition (SIRIN) and N₂O isotope
3 approaches to estimate fungal contribution to denitrification in three arable soils under anoxic
4 conditions

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18 **Table S1: SP values of produced N₂O, i.e. without its reduction to N₂, of variety –C₂H₂ (SP_{prod}) calculated by the**
19 **Rayleigh-type model according to Lewicka-Szczebak et al. (2017) and Senbayram et al. (2018) (Eq. 7) using the**
20 **isotope effect of N₂O reduction from the literature (-6‰) (Yu et al., 2020) and the *product ratio*_{15N}.**

Experiment	Treatment/variety	SP_{prod}
Experiment 1 (Loamy sand, winter 2012)	A / -C ₂ H ₂	0.91
	B / -C ₂ H ₂	0.37
	C / -C ₂ H ₂	1.06
	D / -C ₂ H ₂	-0.03
Experiment 2 (Sand, winter 2012)	A / -C ₂ H ₂	-1.00
	B / -C ₂ H ₂	-1.64
	C / -C ₂ H ₂	-1.40
	D / -C ₂ H ₂	-1.03
Experiment 3 (Silt loam, winter 2013)	A / -C ₂ H ₂	0.02
	B / -C ₂ H ₂	-0.62
	C / -C ₂ H ₂	-0.89
	D / -C ₂ H ₂	-1.43
Experiment 4 (Loamy sand, summer 2011)	A / -C ₂ H ₂	2.71
	B / -C ₂ H ₂	-1.80
	C / -C ₂ H ₂	2.40

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