



Supplementary Figure S1: Wheat (*Triticum aestivum*) seeds of the variety Mara (%) contaminated with the pathogenic fungi of the genus *Alternaria* and *Fusarium* after sterilization procedures.

Supplementary Table S1: Odds Ratio Estimates and Wald Confidence Intervals for *Alternaria* contamination of wheat (*Triticum aestivum*) seeds

Odds Ratio	Estimate	95% Confidence Limits	
sterilization procedure K vs N at PPM=0	0.580	0.149	2.264
sterilization procedure K vs S40 at PPM=0	2.043	0.582	7.173
sterilization procedure K vs S50 at PPM=0	1.238	0.366	4.187
sterilization procedure N vs S40 at PPM=0	3.520	0.941	13.174
sterilization procedure N vs S50 at PPM=0	2.133	0.591	7.703
sterilization procedure S40 vs S50 at PPM=0	0.606	0.188	1.957
sterilization procedure K vs N at PPM=2	0.765	0.182	3.210
sterilization procedure K vs S40 at PPM=2	1.733	0.443	6.789
sterilization procedure K vs S50 at PPM=2	15.600	3.152	77.212
sterilization procedure N vs S40 at PPM=2	2.267	0.594	8.653
sterilization procedure N vs S50 at PPM=2	20.400	4.213	98.783
sterilization procedure S40 vs S50 at PPM=2	9.000	1.979	40.931
sterilization procedure K vs N at PPM=4	0.389	0.082	1.836
sterilization procedure K vs S40 at PPM=4	3.500	0.945	12.966
sterilization procedure K vs S50 at PPM=4	21.000	3.664	120.372
sterilization procedure N vs S40 at PPM=4	9.000	1.979	40.931
sterilization procedure N vs S50 at PPM=4	54.000	8.038	362.751
sterilization procedure S40 vs S50 at PPM=4	6.000	1.082	33.274

*(Because a difference of 0 in the log-odds of the outcome when exponentiated translates to an odds ratio of 1, we test odds ratios for significance against 1 rather than 0). Thus, confidence intervals containing 1 denote non-significant effects. In the table above, we see that the effect of the sterilization procedure is significant when both 2 ml L⁻¹ PPM or 4 ml L⁻¹ PPM are added to the growth medium, so the S50 sterilization procedure increases the probability of reducing *Alternarium* contamination at both dosages of PPM.

Supplementary Table S2: Effect of surface sterilization procedure and PPM addition to the seed growth medium on the probability of germination of wheat (*Triticum aestivum*) seeds as revealed by logistic regression analysis.

Sterilization treatment	Wald Chi-square	Pr>Chi-square
sterilization procedure	0,5523	0,9073 ^{ns}
PPM	0,0090	0,9955 ^{ns}
sterilization procedure x PPM	5,5513	0,4753 ^{ns}

ns indicate non-significant