```
A                     *        20        *        40        *        60        *        80        *       100        *       120
Kerman  : ATGGCAAAGCTCGTACTTCTCCTATCTGCCTTCGCATTCCTCATCCTGGCGGCCAATGCCTCCATCTACCGCGCTACTGTGGAAGTTGAAGGAGAAAACTTGAGCAGTGGGCAGAGTTGC : 120
Aequina : ........................................................................................................................ : 120
Mateur  : ........................................................................................................................ : 120
Sirora  : ........................................................................................................................ : 120

                      *       140        *       160        *       180        *       200        *       220        *       240
Kerman  : CAAAAGCAGTTCGGAGGAGCAGCAAAAATTCAAGCACTGCCAAATGTACGTGCAACAGGAGGTCCAGAAGAGCCAAGACGGACACTCGCTCACCGCACGCATCAACCAGCGACAACAATGC : 240
Aequina : ........................................................................................................................ : 240
Mateur  : ........................................................................................................................ : 240
Sirora  : ...........................G..............................................A............................................. : 240

B                     *       120        *       140        *       160        *       180        *       200
Type_320   : TGAAACAGTGCAAGCACCAGTGCAAAGTCCAGAGGCAGTATGACGAGCAACAGAAGGAGCAGTGTGTGAAAGAGTGTGAAAAGTACTACAAAGAGAAGAA : 200
BRS_189    : ................G................................................................................... : 200
BRS_274    : .................................................................................................... : 200
Embrapa_50 : .................................................................................................... : 200
CCP_06     : .................................................................................................... : 200

                      *       220        *       240        *       260        *       280        *       300
Type_320   : AGGACGGGAACGAGAGHATGAGGAGGAAGAAGAAGAATGGGHAACTGGTGGCGTTGATGAACCCAGCACTCATGAACCAGCTGAAAAGCATCTCAGTCAG : 300
BRS_189    : .................................................................................................... : 300
BRS_274    : .................................................................................................... : 300
Embrapa_50 : .................................................................................................... : 300
CCP_06     : .................................................................................................... : 300

C                     *       380        *       400        *       420        *       440        *       460        *       480
Negreta   : ATGCTGAGTTTTTGGCGGACGCGTTCAACGTGGATGTTGACACGGCCAGAAGGCTTCAGAGCAACCAAGACAAAAGGAGGAACATCGTCAAAGTGGAAGGCAGGCTTCAGGTGGTGAGGC : 476
Pauetet   : ........................................................................................................................ : 477
Tonda     : ........................................................................................................................ : 473
San_Giovan : ...............................................................G...........G.........................A......... : 473

                      *       500        *       520        *       540        *       560        *       580        *       600
Negreta   : CGGAAAGGTCGCGTCAGGAATGGGAGCGACAGGAGAGACAAGAGAGGGAGAGTGAGCAAGAGCGGGAACGCCAGCGTCGCCAGGGAGGACGTGGACGTGATGTCAATGGCTTTGAGGAGA : 596
Pauetet   : ........................................................................................................................ : 597
Tonda     : ........................................................................................................................ : 593
San_Giovan : ......................................A.................................A.......................................... : 593
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Figure S1. Partial alignment of Pis v 1, Ana o 1 and Cor a 9 coding sequences. Alignment (performed with Clustal Omega) of pistachio (A), cashew (B) and hazelnut (C) varieties of real time PCR targets. Position and sequence of primers and probes are squared. Nucleotide identities are dots in the alignment.
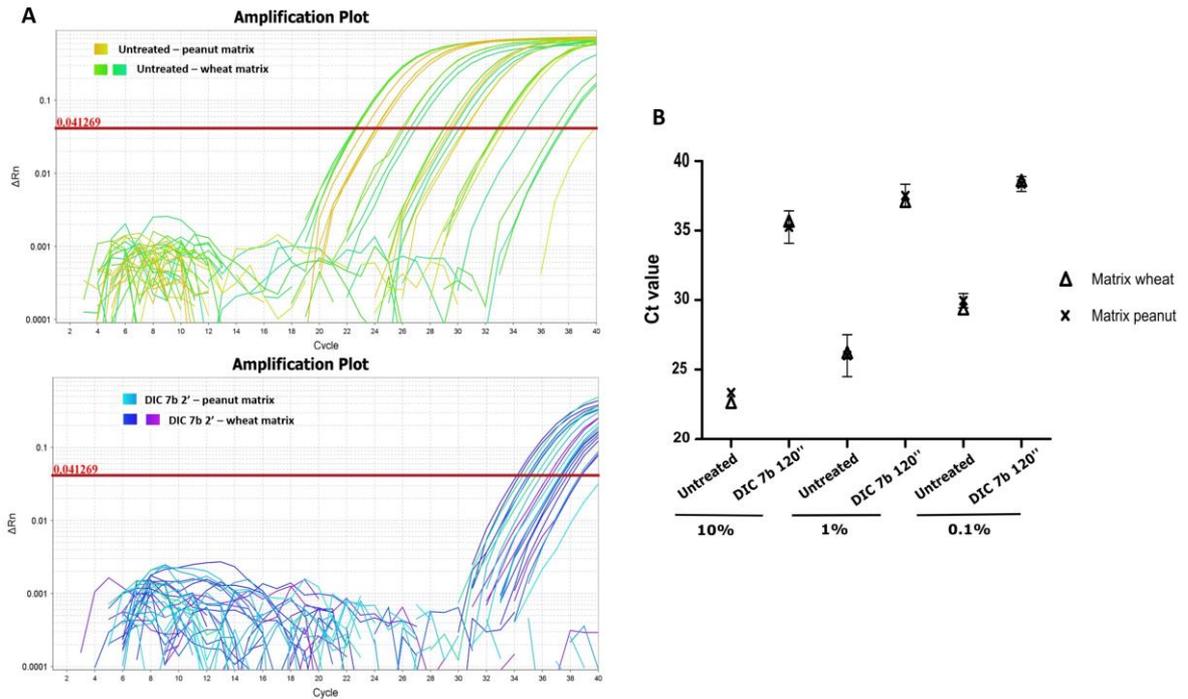
Figure S2. A) Amplification plots of untreated (top) and treated by DIC 7b 120 sec (bottom) hazelnut samples, from 10^5 to 10 ppm of hazelnut in both tested matrices (peanut and wheat). **B)** Ct values for Cor a 9 amplification from binary mixtures in wheat and peanut made with untreated and treated by DIC 7b 120 ''flours. Spiked of higher amount of hazelnut (10% to 0.1%, or 10^5 to 1000 ppm).
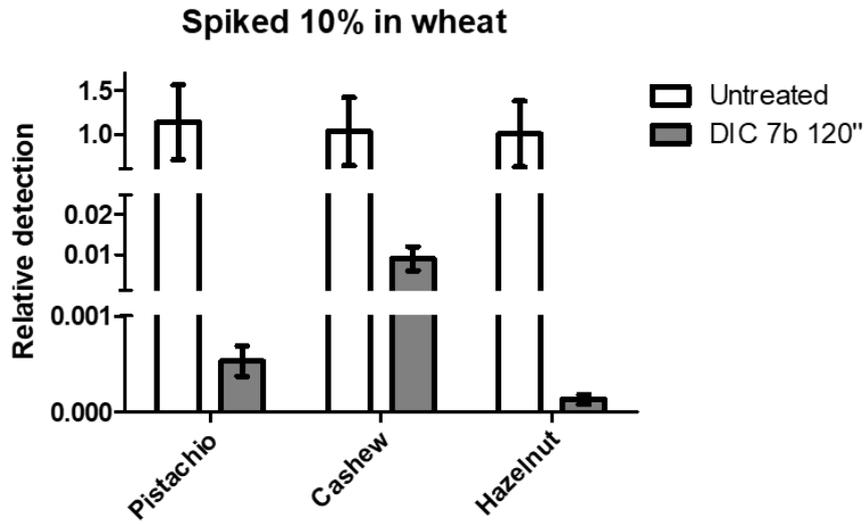
Figure S3. Relative detection of Pis v 1, Ana o 1, Cor a 9 targets in binary mixtures with 10% w/w of untreated and treated by DIC 7b 120″ flours.