**Supplementary material**

**EFFICIENT PLANT PRODUCTION OF RECOMBINANT NS1 PROTEIN FOR DIAGNOSIS OF DENGUE**

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**Supplementary figure 1.** Cloning of the NS1DENV2 gene in Agrobacterium tumefaciens. A) Double vector digestion pCAMBIA3301\_empty. MM - Lambda/HindIII DNA molecular marker, 1 - digested plasmid, 2 - undigested plasmid; B) Double vector digest pUC57\_NS1DENV2. MM - 100 bp DNA molecular marker, 1 - digested plasmid, 2 - undigested plasmid; C) Confirmation of transformation of E. coli with pCAMBIA3301\_NS1DENV2. MM - 1 kb DNA molecular marker, 1-2 - digested plasmids; D) Confirmation of transformation of A. tumefaciens with pCAMBIA3301\_NS1DENV2. MM – 1 kb DNA molecular marker, 1-5 - digested plasmids.



**Supplementary figure 2.** Densitometry analysis. Protein quantification was performed using ImageJ software, based on standard curve. A – Standard curve obtained by bovine serum albumin (BSA) dilution. B – Pixel density of the sample is interpolated with standard curve.

Total yield was obtained by multiplication of the quantity recovery from 1 gr of fresh leaf by the total weight. As resumed by this equation $Y=d x 1000$

Y = yield (mg/kg)

d = protein concentration by densitometry (µg/mL)

as each 1 mL comes from 1 gr of fresh leaf, the protein concentration obtained needs be multiplied by the total grams in one kilogram.