Fig. S1. The effect of incubation time on staining with Eosin Y in whiteflies. Prolonged staining at 60°C (A,B) or at 70°C (C,D) does not enhance dye uptake. Prolonged staining after chloroform treatment does not have any affect on the staining pattern (E,F).
Fig. S2. The effect of incubation with Bromophenol blue and Methylene blue in whiteflies

Bromophenol blue and Methylene blue do not stain the wings of whiteflies at 60°C. At 70°C, Bromophenol blue is excluded from the wing tissue, whereas Methylene blue penetrates the margins and the central vein. At 80°C, the entire wing is stained by both dyes. At 25°C, after chloroform treatment, Bromophenol blue fails to penetrate the wing cuticle, while Methylene blue is taken up at the margin and the central vein. Incubation at 60°C or 80°C following chloroform incubation provokes uniform dye uptake. Uptake of these dyes at 25°C is prevented when animals were cooled down to 0°C after incubation at 80°C. After incubation of specimens at 60°C following incubation at 80°C and annealing both dyes penetrate the entire tissue.
Fig. S3. The effect of incubation with Bromophenol blue and Methylene blue in bedbug first instar nymphs

Bromophenol blue and Methylene blue do not stain bedbug first instar nymphs at 25°C or 60°C. Staining with these dyes at 25°C after incubation in chloroform is negative, whereas at 60°C, the antennae, the body and parts of the legs become blue. At 70°C and 80°C, Bromophenol blue does not penetrate the centre of the abdomen (arrow); also the legs of the nymphs remain unstained. Methylene blue penetrates the entire body of first instar nymphs at 70°C and 80°C. Also the legs are stained at these temperatures with this dye. Pre-incubation of the animals in chloroform provokes complete staining of the nymphs with Bromophenol blue and Methylene blue at 70°C and 80°C. Both Bromophenol blue and Methylene blue do not enter the cuticle of nymphs at 25°C after incubation at 80°C. By contrast, Bromophenol blue and Methylene blue penetrate the entire nymphal cuticle at 60°C after incubation at 80°C.