It was evaluated the action of homeopathic medicines - biotherapic of Trypanosoma cruzi 12DH and Phosphorus 12DH - on T. cruzi infection course in C57BL/6 mice. 80 adults males were divided in five experimental groups: 1- treated with biotherapic before experimental infection (BBI); 2-treated with biotherapic after infection (BAI); 3- treated with Phosphorus after infection (PAI); 4- treated with placebo before and after infection (Placebo) and 5 - control group not infected. Animals’s parasitemia was monitored (parasites per mL of blood). Mean values of prepatente and patente periods and the mortality rate of the experimental groups were, respectively: 5,0; 5,2; 5,3 and 5,5 days; 11,0 (p<0,05); 16,4 (p>0,05); 19,8 (p>0,05); and 17,5 days (p>0,05); 12,5; 37,5; 0,0 and 42,8%. Results show that homeopathy represents a perspective in the treatment of T. cruzi infection and should be better investigated.