Isolation and identification of thermophilic bacteria from hot spring of Songgoriti, Malang has been done in Laboratory of Chemistry of Microorganism Department, Faculty of Mathematic and Natural Sciences, Institut Teknologi Sepuluh Nopember. This study was aimed to find biodiversity of thermophilic bacteria in the hot spring which is potential to be developed for industrial purpose. Thermophilic bacteria was incubated for two days and the colonies appeared after two days incubation, then labeled as A, B, C, and D. Bacteria A, B and D were Gram-negative and rod-shaped bacteria while bacteria C were bacteria Gram-positive and rod-shaped bacteria. Identification using: oxidase test, glucose fermentation, and Na⁺ test lead to Vibrio sp (A,B,D) and Bacillus sp (C).