Subjective wear trials were conducted to evaluate effects of disposable antibacterial sweat pads produced within a national project. Raw and treated sweat pads having polypropylene and polylactic acid topsheet layers were placed within the shoes of ten subjects having identical physiological parameters and wearing standard sports clothing. An activity protocol was conducted under 10°C and 50% relative humidity simulating an activity producing sweat in a cold environment. Microclimate temperature and relative humidity values were obtained by portable sensors and weight gains of the investigated foot were also determined (artificial sweat of 5 ml was added). Subjective thermal (coolness, dampness) and comfort sensations were obtained by five point rating scales. Results show that antibacterial sweat pads decreased coolness and dampness sensations especially during low or moderate activities and antibacterial treatments did not deteriorated thermal comfort performances of the pads. Good fragrances of the herbal antibacterial agents are other advantages of the pads.