

## CLINICAL SPECIFICATIONS

### HEMP

**Antigen Made From:**

Packaged Hemp protein powder

**Associated With:**

 Allergy<sup>1,2</sup>
**Known Cross-Reactions:** Triiodothyronine (T3)<sup>4</sup>
**Clinical Significance:**

The presence of antibodies to Hemp is an indication of food immune reactivity. The offending food and its known cross-reactive foods should be eliminated from the diet. Hemp is emerging as a popular alternative food source, especially for vegetarians.<sup>3</sup> Very few studies have been done on Hemp as a food source, although some cases of sensitization and allergy to the plant have been reported.<sup>1,2</sup>

**References:**

1. Popa et al. An investigation of allergy in byssinosis: sensitization to cotton, hemp, flax and jute antigens. Brit J Industr Med, 1969; 26:101-108.
2. Stokes et al. Cannabis (hemp) positive skin tests and respiratory symptoms. Ann Allergy Asthma Immunol, 2000; 85:238-240.
3. Tang et al. Enzymatic hydrolysis of hemp (Cannabis sativa L.) protein isolate by various proteases and antioxidant properties of the resulting hydrolysates. Food Chem, 2009; 114(4):1484-1490.
4. Kharrazian, et al. Immunological reactivity using monoclonal and polyclonal antibodies of autoimmune thyroid target sites with dietary proteins. J Thyroid Res, 2017; 2017:4354723.