

## CLINICAL SPECIFICATIONS

### BLUEBERRY

#### Antigen Made From:

Fresh Blueberries

#### Associated With:

Blueberry immune reactivity

**Known Cross-Reactions:** Anti-*B. burgdorferi* antibodies<sup>1</sup>

#### Clinical Significance:

One hundred grams of blueberries contain 0.74% protein.<sup>2</sup> Studies on food immune reactivities predominantly use raw food antigens. However, some researchers have noted that heating, or combining, food proteins can change their antigenicity.<sup>3-5</sup>

This array tests for IgG and IgA food immune reactivity.<sup>6,7</sup> Equivocal or out-of-range results indicate antibody reactivity to the tested food antigen. We tested 288 blood donor sera against blueberry antigens at optimal dilution, 18.7% of these donors were IgG and IgA reactive.

Due to cross-reactivity, possible connections between food antigens and human autoimmunity has been previously suggested because proteins in nature can have a similarity in sequence and structure to certain human tissues.<sup>8-11</sup>

Data suggests that eliminating foods identified using IgG antibody food testing can play a role in improvement of symptoms.<sup>12</sup> Because certain food components can lead to gut flora changes and gut permeability, eliminating specified food antigens should result in the reduction of antigenic stimuli and the improvement of symptoms.<sup>12,13</sup>

The results of this food array may be used to develop and implement an immune targeted dietary plan, which includes the avoidance of triggering and known cross-reactive foods. Furthermore, when followed over time, avoidance/prevention treatment plans tailored and supervised by the ordering healthcare professional, may help: (a) repair the gut barrier; and (b) re-establish oral tolerance to the offending food.<sup>12,13</sup>

#### References:

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