

Allergen, Alpha-Lactalbumin (f76) IgE

Test ID: 2851

CPT: 86003

Clinical Significance:

Milk contains more than 40 proteins, and all of them may act as human species antigens.

Milk of ruminant species other than Cow (e.g., buffalo, Sheep, Goat, human, and many other species) is constituted from the same or very homologous proteins, which share the same structural, functional, and biological properties. However, human milk does not contain b-lactoglobulin (beta-lactoglobulin)(BLG) (2). Human and Bovine milk differ substantially in the ratio of Whey to Casein protein (approximately 60:40 in human milk and approximately 20:80 in Bovine milk) and in the proportions of specific proteins (3).

Milk composition changes during processing. Cow's milk contains approximately 30 to 35 g/L (3-3.5%) of Cow's milk proteins (CMPs), which can be divided into 2 main classes: Caseins (80%) and Whey proteins (20%) (4). Caseins are precipitated out by chymosin (rennin) or the acidification of the Milk to pH 4.6, forming the coagulum (curd). The

Clinical Significance:

Whey or Lactoserum remains soluble in the Milk serum. Lactoserum constitutes approximately 20% of the CMPs, and coagulum approximately 80% of the CMPs. Caseins and Whey proteins show very different physico-chemical properties.



Labtech Diagnostics

Container:

Serum Separator Tube (SST®)

Transport Temperature:

Room Temperature

Specimen:

Serum

Specimen Stability:

Room temperature: 28 days

Refrigerated: 28 days

Frozen: 1 year

Reject Criteria:

Days Performed:

Mon-Sat

Collection Instructions: