Precise results for safe and accurate decisions
How to improve characterization and management milk allergic patients
Take the diagnosis and management of milk-allergic patients to a whole new level

Improved risk assessment with allergen components
- The levels of Bos d 8 IgE antibodies reflect the severity of the milk allergy;¹⁻⁴
  - high levels indicate allergy to both fresh and baked milk
  - low or undetectable levels indicate tolerance to baked milk products e.g. cakes and cookies.
- Patients sensitized to Bos d 8 are at risk of severe reactions upon intake of non-dairy products in which casein may be used as an additive (e.g. in sausages, chocolate and potato chips).⁵⁻⁷

Better characterization and management of milk allergic patients
- Patients sensitized to Bos d 4, Bos d 5, Bos d 6 and/or Bos d lactoferrin but with low levels of IgE to Bos d 8 may tolerate cooked milk.⁵⁻¹⁰
- Children often outgrow their milk allergy – early signs of tolerance development can be detected by following the Bos d 8 IgE levels over time.¹¹⁻¹⁴
- As tolerance develops, decreasing levels of IgE to Bos d 4, Bos d 5 and Bos d 6 are also seen.¹²
- By quantifying the IgE levels to Bos d 8 the clinicians may be helped in the decision when to perform a challenge test.¹¹⁻¹²,¹⁵
- Milk allergic patients sensitized to Bos d 6 may also have concomitant beef allergy.¹⁶⁻¹⁷
Did you know that?

• The prevalence of milk allergy in young children is approximately 2%.\(^\text{18}\)

• Most milk allergic patients are sensitized to several milk components.

• 80% of the milk protein content is casein; the remaining 20% are whey proteins.\(^\text{19}\)

• Bos d 8 (casein) is a major milk allergen which is stable to heat

• Milk whey contains proteins such as beta-lactoglobulin, alpha-lactalbumin, serum albumin and transferrin.\(^\text{19}\)

• Whey proteins are rather heat labile and therefore destroyed by cooking.\(^\text{19}\)

• Bos d 6 (serum albumin) is a main allergen in beef.\(^\text{16-17}\)

• Bos d 6 is a risk marker for systemic reactions e.g. in artificial insemination and cell therapy treatment or other procedures involving infusion of albumin-containing medium.\(^\text{21-23}\)