References:
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 also 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 and Bos d 6 but with low levels of IgE to Bos d 8 may tolerate baked milk products.6–10
- 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 %.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.19
- Bos d 8 (casein) is a major milk allergen which is stable to heat.19–20
- Milk whey contains proteins such as beta-lactoglobulin, alpha-lactalbumin and serum albumin.19
- Whey proteins are rather heat labile and therefore destroyed by cooking.19
- Bos d 6 (serum albumin) is a main allergen in beef.16–17
- Bos d 8 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.21–23
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**Recommended test profile**

- **ImmunocAP® COMPLETE EXTRACT**
  - Milk (25)
- **ImmunocAP® COMPONENTS**
  - Bos d 4 (f76)
  - Bos d 5 (f77)
  - Bos d 6 (e204)
  - Bos d 8 (f78)

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