





# next

One step ahead  
in allergy management

-  Ground-breaking technology
-  New-generation CCD blockers
-  3 unique monoclonal antibodies from recombinant IgE
-  100% specificity with high sensitivity



They can't tell you what they're allergic to  
That's where we come in

 **nextmune**



One step ahead

## What is next+?

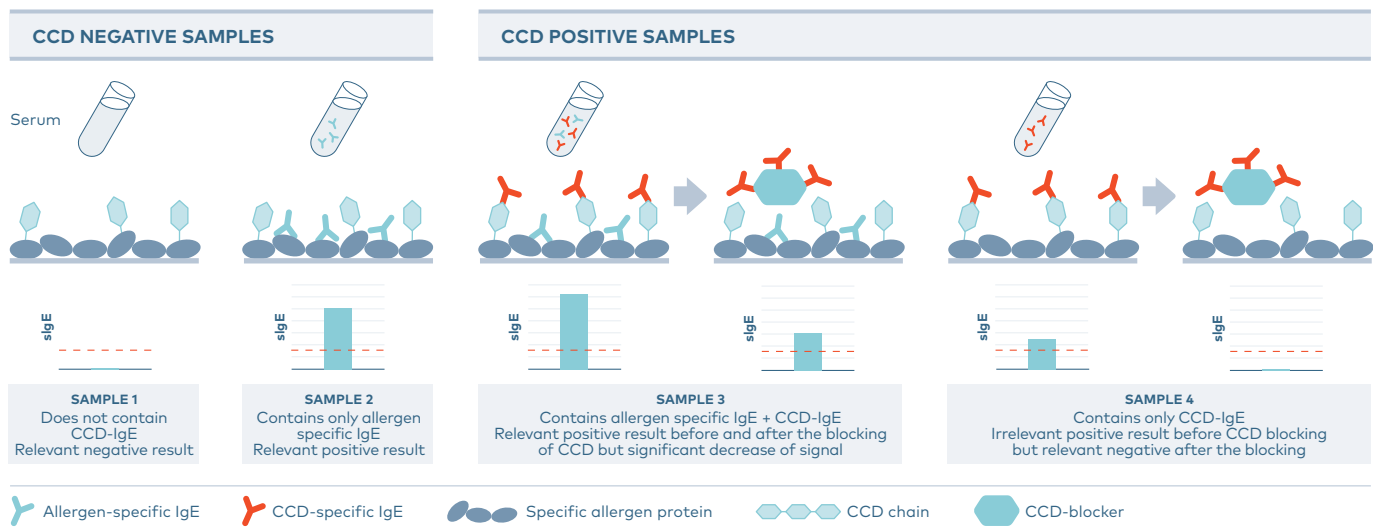
**Next+** is an innovative allergy test for detecting specific immunoglobulin E (IgE) in the serum of dogs and cats. It has all the benefits of our **ground-breaking technology** + it employs a new generation of CCD blockers.



## What are CCDs and why is it important to block them?

CCDs are **cross-reactive carbohydrate determinants** – the carbohydrate chains found in glycoproteins. CCDs are part of the structure of many allergy-causing proteins, especially plant-based allergens like pollen. During an allergic reaction, IgE is produced against the carbohydrate chains as well as the allergen proteins. Studies have confirmed that this occurs in

30% of humans, dogs and cats <sup>[1-3]</sup>. Other research shows that IgE against CCDs is clinically irrelevant. But it is now known that removing CCD-specific IgE makes *in vitro* test correlate well with the sensitivity and specificity of intradermal skin tests <sup>[3]</sup>. Blocking CCDs simply means that the specificity of the *in vitro* test is enhanced.



# Why is next+ the IgE test of choice?

## 1 Three proprietary monoclonal antibodies derived from recombinant IgE

- Unique monoclonal antibodies that target specific IgE sites
- Developed from canine recombinant IgE
- No cross-reactions with other immunoglobulins like IgG
- 100% specificity and superior sensitivity
- Fewer in-lab steps to minimize the risk of inaccuracy

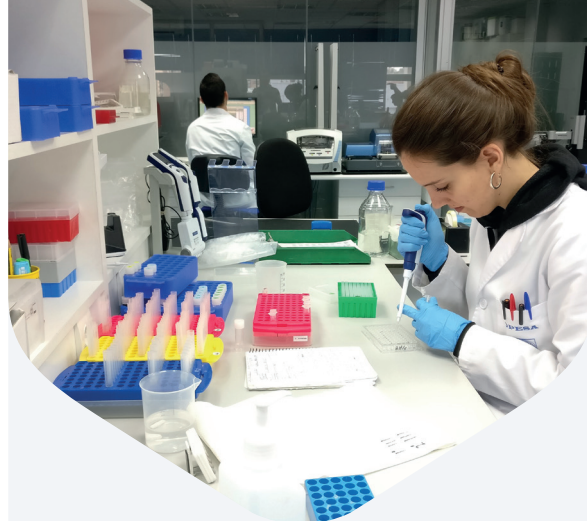
## 2 New-generation semi-synthetic CCD blockers

- First test with next-generation CCD blockers
- Highly specific blocking of CCDs
- No interference with any tested allergens

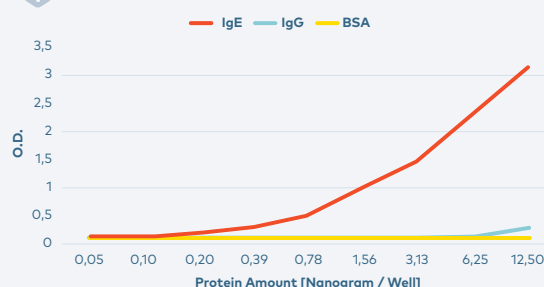
## 3 Excellent accuracy and reproducibility

- Best-in-class intra-assay and inter-assay reproducibility
- Daily calibration curve removes variability

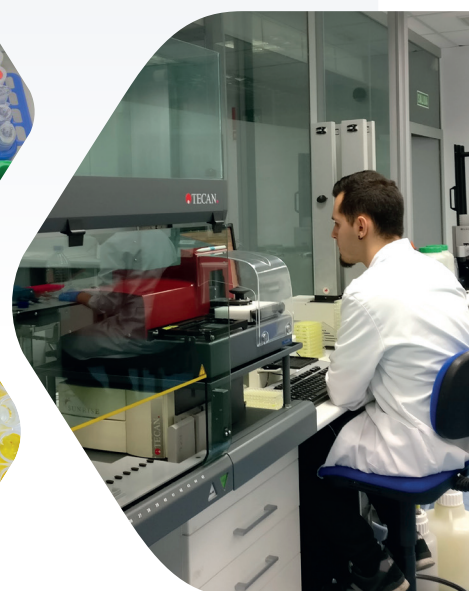
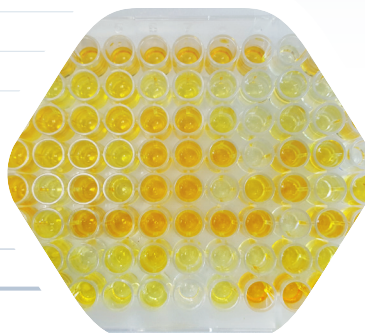
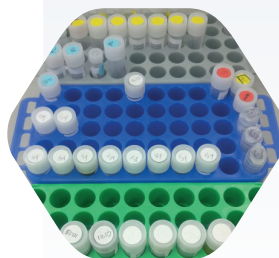
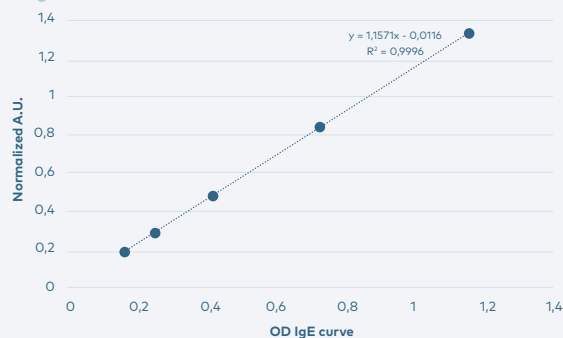
| ALLERGENS                  | WITHOUT CCD BLOCKER | WITH CCD BLOCKER |
|----------------------------|---------------------|------------------|
| <i>Phleum pratense</i>     | 486                 | 375              |
| <i>Poa pratensis</i>       | 205                 | 52               |
| <i>Dactylis glomerata</i>  | 259                 | 32               |
| <i>Lolium perenne</i>      | 181                 | 81               |
| <i>Rumex acetosella</i>    | 352                 | 52               |
| <i>Plantago lanceolata</i> | 316                 | 66               |
| <i>Urtica spp.</i>         | 205                 | 50               |
| <i>Chenopodium album</i>   | 358                 | 108              |
| <i>Artemisia vulgaris</i>  | 235                 | 35               |
| <i>Ambrosia eliator</i>    | 409                 | 49               |
| <i>Betula pendula</i>      | 428                 | 415              |
| <i>Corylus avellana</i>    | 247                 | 47               |
| <i>Salix viminalis</i>     | 100                 | 60               |
| <i>Ulmus americana</i>     | 121                 | 21               |
| <b>Positive allergens</b>  | <b>7</b>            | <b>2</b>         |



1 IgE, IgG and BSA as antigens in different wells



3







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in allergy management

[1] Petersen A et al **Ubiquitous structures responsible for IgE cross-reactivity between tomato fruit and grass pollen allergens**  
J Allergy Clin Immunol 1996 Oct; 98(4):805-15

[2] Mari A et al **Specific IgE to cross-reactive carbohydrate determinants strongly affect the in vitro diagnosis of allergic diseases**  
J Allergy Clin Immunol 1999; 103(6): 1006-1011

[3] Gedon NKY et al **Agreement of serum allergen test results with unblocked and blocked IgE against cross-reactive carbohydrate determinants (CCD) and intradermal test results in atopic dogs**  
Vet Dermatol 2019; 30(3):195



eye on patient,  
mind on innovation

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