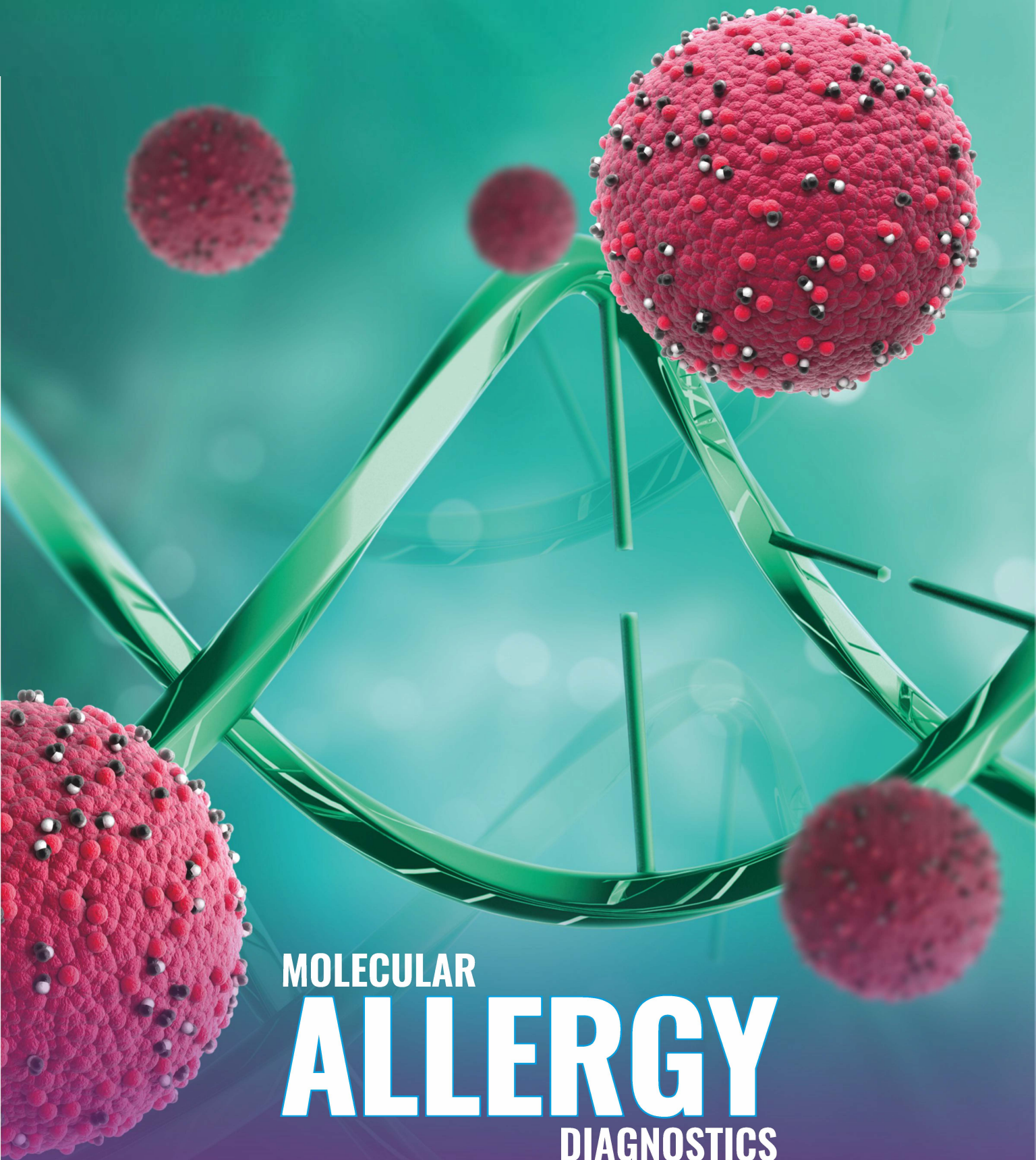


QLINE DIAGNOSTICS
Ahmedabad

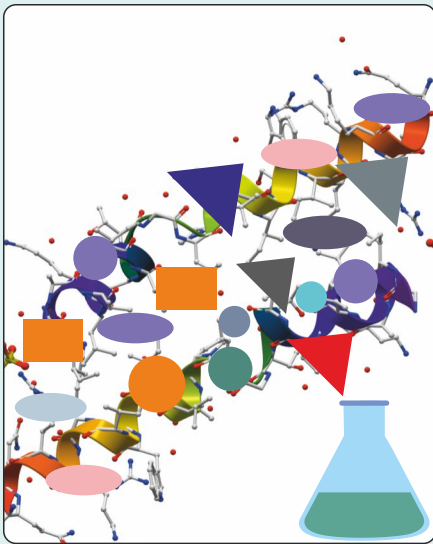


MOLECULAR
ALLERGY
DIAGNOSTICS

Allergens are not whole food or certain substances,
they are protein molecules that trigger the immune response.

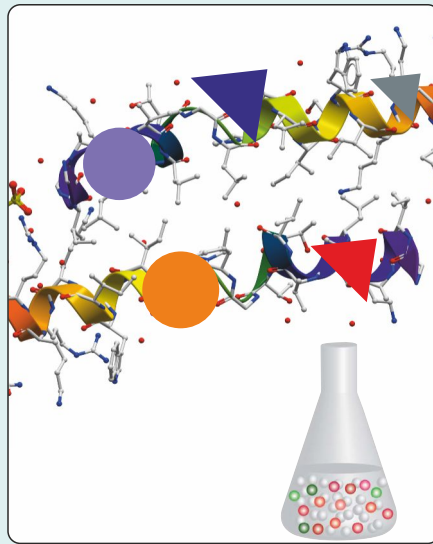
Allergens utilised in allergy testing

Generation - 1



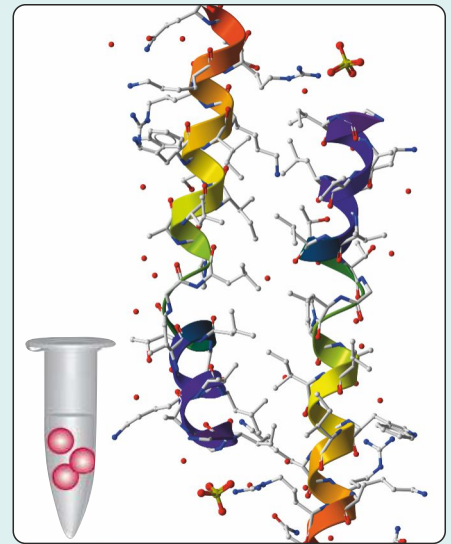
Crude whole extract (Carbohydrate, Protein, Lipid etc.)

Generation - 2



Purified protein extract

Generation - 3



Protein components

Generation 1 to Generation 3 allergen testing has substantially improved :

- Protein family is utilized as a source.
- Specific IgE is measured.

But.....

Current methods have still many limitations, leaving many clinical questions unanswered.

Limitations of current testing

- Many unexplained or false positives.
- No differentiation between genuine & cross-reactive sensitizations.
- Does not give molecular allergen-specific clinical risk (Severe, High, Moderate, Low & Negative) relevance.
- Suggests gross avoidance of food, not allergen-specific avoidance.
- Does not provide information on the patient's prognosis.
- Clinical decision-making remains a challenge.
- Absence of therapeutic guidance & monitoring.

4th Generation

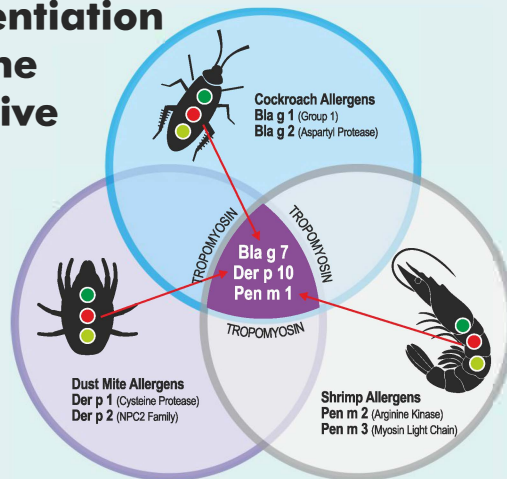
CRD (Component Resolve Diagnosis) Allergy Panel

By Advanced Micro array Assay Method
Molecular-level allergen detection by recombinant DNA technology

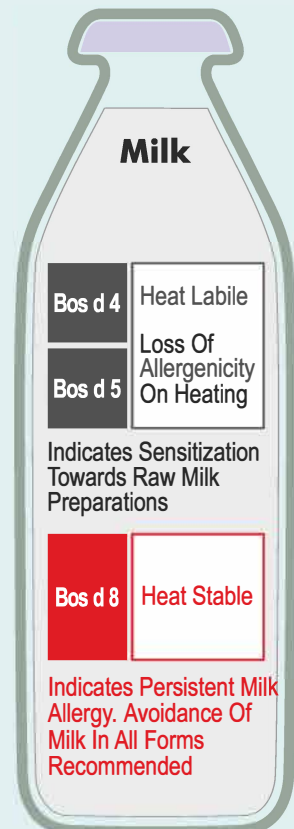
Molecular components ensure high Specificity

Allergen Source Constituents	Crude Extract	Purified Extract	Molecular Component	Molecular Advantages
1. Major Allergens 2. CCDs (Cross-reactive Carbohydrate Determinants) 3. Masked Minor Allergens 4. Pan Allergens 5. Unwanted Proteins 6. Degraded Proteins 7. Under-represented Allergens				<ul style="list-style-type: none"> Standardized Concentration Of Allergens No CCDs No Masked & Degraded Allergens Pan Allergens Identified Optimal Quantity Of Under-represented Allergens

Allergen differentiation between genuine and cross-reactive sensitization



Allergy avoidance Strategy



Immuno therapy Guidance

DUST MITE EXTRACT Positive <input checked="" type="checkbox"/> Negative <input type="checkbox"/>	Der p 1 Der p 2 Candidate For Immunotherapy <input checked="" type="checkbox"/>
	DUST MITE MOLECULAR ALLERGENS Der p 5 Der p 7 Der p 10 Der p 20 Der p 21 Der p 23 Candidate For Immunotherapy <input type="checkbox"/>

Dermatophagoides pteronyssinus (Dust Mite)

IMMUNOTHERAPY DECISION ?

Severity Analysis & Risk Identification

Allergen Source		1	2	3	4	5	
1	Egg	Allergens	Gal d 1	Gal d 2	Gal d 3	Gal d 4	Gal d 5
		Family	Ovomucoid	Ovalbumin	Ovotransferrin	Lysozyme	Serum Albumin
		Severity	+++	++	++	++	++
2	Milk	Allergens	Bos d 4	Bos d 5	Bos d 8	-	-
		Family	K-lactalbumin	Δ-lactoglobulin	Casein	-	-
		Severity	++	++	+++	-	-
3	Peanut	Allergens	Ara h 1	Ara h 2	Ara h 8	Ara h 9	-
		Family	Storage Protein	Storage Protein	PR - 10	LTP	-
		Severity	+++++	+++++	++	++++	-

4th Generation Revolutionary Test Advantages

- **296 Allergens** screening in one run
- **True IgE Profiling:** Total IgE + Specific IgE + Protein family identification
- **Eliminates False Positives** & increases Assay Specificity
- Molecular allergens ensure **Batch-to-batch Consistency**
- **Allergy screening, diagnosis, prognosis & monitoring together**
- Analyzes the **Persistence or Remission** of food allergy
- **Risk Stratification** through Protein family identification
- Individualized guidance for **Allergen Avoidance**
- Selection of patients for **Allergen Immuno therapy**
- Screening for **Idiopathic Allergies**
- Effectively analyzes **Complex Allergic Syndromes**
(OAS, Latex-Fruit Syndrome, Cat-Pork Syndrome, etc.)
- Nearly free from **CCD Interference**
- **AI-Driven** automated reporting software

Sample details: Serum **Method:** Microarray Assay (Allex Allergy Explorer) **TAT:** 1 day

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