

ALLERGEN	LATIN NAME
Birch, White	<i>Betula verrucosa (alba, pendula)</i>
Ragweed Mix I	<i>Ambrosia elatior/Ambrosia trifida</i>
Timothy Grass	<i>Phleum pratense</i>
Mugwort	<i>Artemisia vulgaris</i>
Latex	<i>Hevea brasiliensis</i>
Soybean	<i>Glycine max</i>
Rice	<i>Oryza sativa</i>
Codfish	<i>Gadus morhua</i>
Wheat	<i>Triticum aestivum</i>
Peanut	<i>Arachis hypogaea</i>
Egg white	<i>Gallus gallus</i>
Cow's Milk	N/A
Aspergillus	<i>Aspergillus fumigatus</i>
Cladosporium	<i>Cladosporium herbarum/Cladosporium cladosporioides</i>
Alternaria	<i>Alternaria alternata (tenuis)</i>
Dog	<i>Canis</i>
Cat	<i>Felis domesticus</i>
Cockroach Mix	<i>Blatella germanica/Periplaneta americana</i>
Mite p	<i>Dermatophagoides pteronyssinus</i>
Mite f	<i>Dermatophagoides farinae</i>

For more performance data and information about the technology behind OPTIGEN, please see Hitachi Chemical Diagnostics' Monograph, "OPTIGEN: A New Technology for the *In Vitro* Determination of Allergen-Specific IgE Levels in Patient Serum."

Hitachi Chemical Diagnostics, Inc.

With its headquarters in the heart of Silicon Valley and offices around the world, Hitachi Chemical Diagnostics is a global leader of *in vitro* allergy diagnostics with a legacy of innovation. Hitachi Chemical Diagnostics was the first company to introduce a multiple diagnostic test for allergies and one of the first to introduce a chemiluminescent assay system for the detection of IgE antibodies. In addition to OPTIGEN, HCD also produces the reliable CLA® Allergy Test and the AP 720S™ Semi-Automated Instrument.

Hitachi Chemical Diagnostics, an integral member of the Hitachi Group, works with industry leaders, laboratories and distributors around the world to provide the medical community access to the latest *in vitro* allergy testing technology. Hitachi Chemical Diagnostics is committed to innovation, quality, and the strength of the Hitachi brand. Our products are marketed to over 40 countries worldwide. To learn more about Hitachi Chemical Diagnostics and OPTIGEN, please contact us or your local representative, or visit us on the web at www.hcdiagnostics.com.

United States Office

Hitachi Chemical Diagnostics, Inc.
630 Clyde Court
Mountain View
CA 94043-2239
650.961.5501
800.233.6278
www.hcdiagnostics.com

European Office

Hitachi Chemical Diagnostics, Inc.
Hitachi Europe Ltd.
Whitebrook Park
Lower Cookham Road
Maidenhead, Berkshire, SL6 8YA
United Kingdom
44 (0) 1628.585.590



OPTIGEN® | ALLERGEN-SPECIFIC IgE ASSAY

Helping the medical community provide quality and affordable allergy care.

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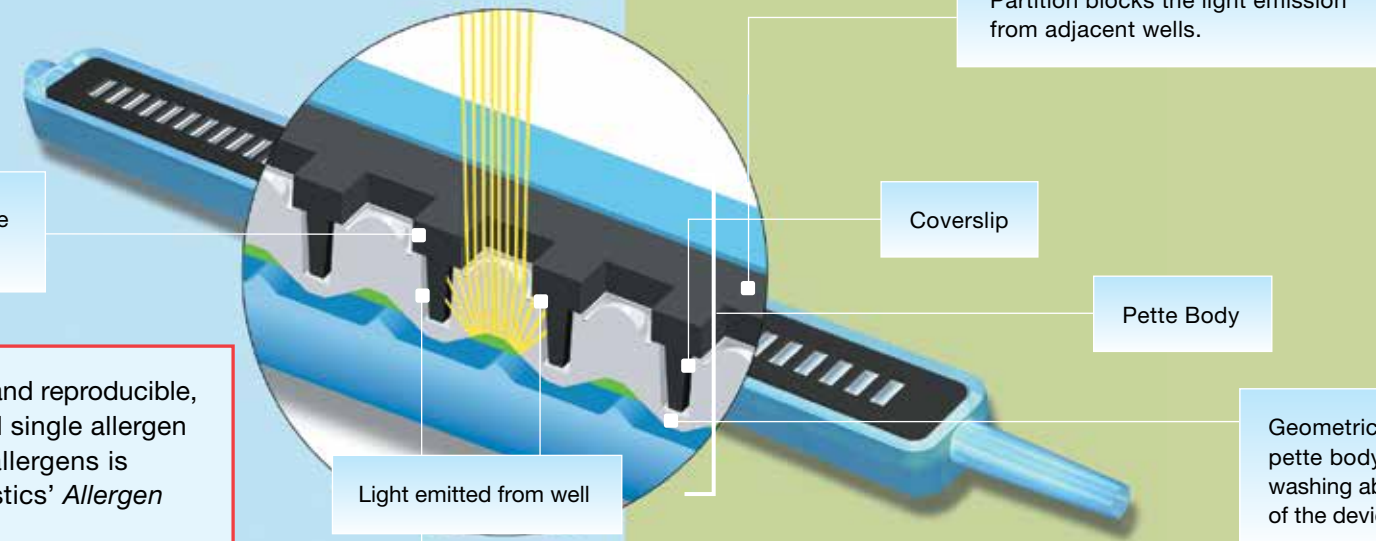
Why OPTIGEN?

Over the last few decades, *in vitro* diagnosis of allergic diseases has become an important cornerstone. Clinicians have found that allergic diseases can be controlled and their symptoms prevented or minimized. The key is the early diagnosis of the allergic condition and identification of the allergens responsible.

Using OPTIGEN as a 'front-line' allergy test, the clinician can devise a plan for prevention or treatment of allergic conditions that can make the difference between a chronic illness and a productive, healthy lifestyle.

OPTIGEN Delivers:

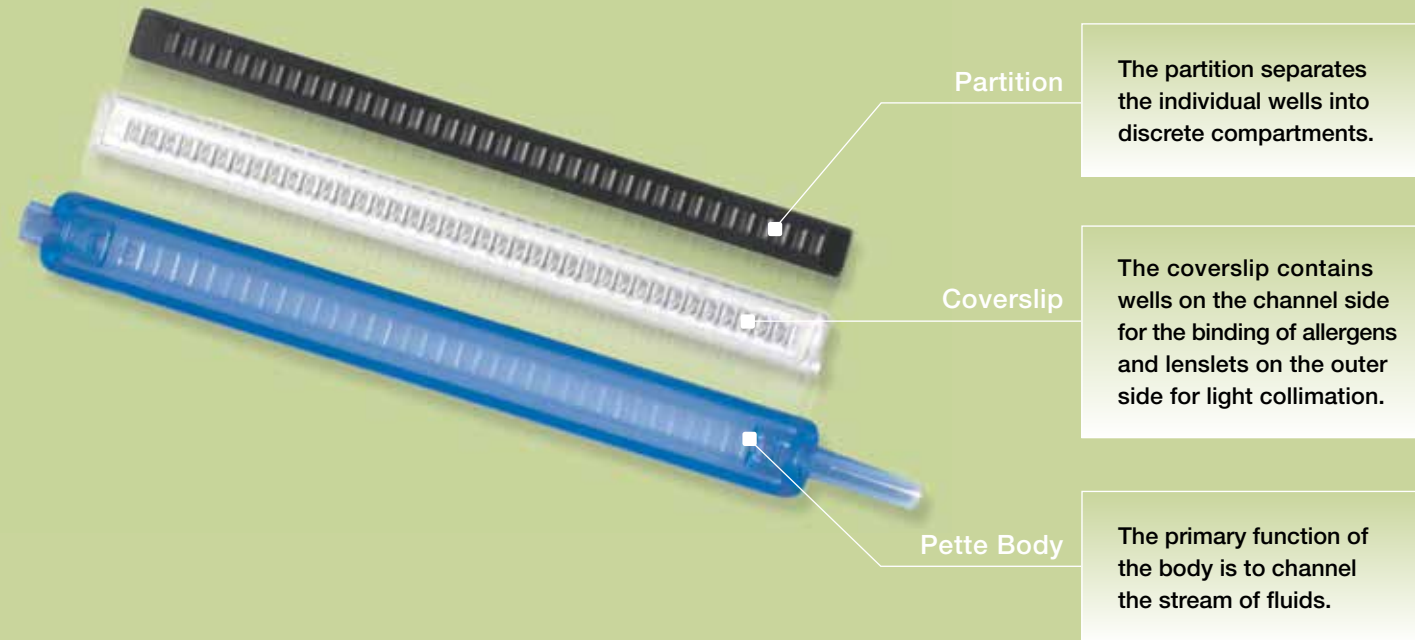
Hitachi Quality	OPTIGEN results are accurate, reliable and reproducible, and correlate well with skin testing and single allergen systems. Consistency of OPTIGEN's allergens is assured with Hitachi Chemical Diagnostics' <i>Allergen Standardization Program</i> .
Low Serum Requirements	OPTIGEN requires minimal serum to be drawn, enabling early diagnosis in children.
Value	With OPTIGEN, clinicians can receive 20 to 36 specific IgE results.
Low Cost	OPTIGEN is state-of-the-art allergy testing technology. It eliminates inventory of individual allergens and decreases waste. With lower serum requirements, smaller volumes of serum controls are necessary, further reducing cost.
Functionality	OPTIGEN, with its simple, three-step process and same-day results, requires minimal training. It provides plenty of "walk-away" time, allowing staff to perform other duties. The panel format also decreases "handling" for technicians.



Product Profile

The fundamental component of the OPTIGEN system is the test chamber called a PETTE—a small plastic high-tech device. The device is made of three molded parts: a body, a coverslip, and a partition.

The patient's blood sample is drawn and the serum is separated and aspirated into the device. IgE antibodies in the serum bind to specific allergens in the device. The operator then adds reagents to the device, which produces light in varying strengths proportional to the amount of allergen-specific IgE in the patient sample. Results are measured in the CLA-1™ LUMINOMETER.



OPTIGEN for the Lab

OPTIGEN offers accurate, reliable and reproducible results and user-friendly functionality.

- Optimal Sensitivity, Specificity and Efficiency
- Simple, Three-Step Process and Same-Day Assay
- Affordability
- Optimised Panel Format
- Minimal Serum Requirement
- Internal Quality Controls
- Quality and Reliability

OPTIGEN for the Clinician

OPTIGEN provides prompt and reliable allergy diagnosis for the symptomatic patient. Early diagnosis of allergy in a child has a high predictive value for the development of other atopic diseases such as asthma. OPTIGEN easily enables the clinician to intervene at an early stage allowing the child to avoid the development of significant allergic disability.

OPTIGEN specifically addresses the issues important to the Clinician:

- Identification of Early Sensitization Patterns
- Beneficial when Diagnosing Patients with Unclear Case History
- Good Predictive Value for Identifying Patients at Risk
- Identification or Confirmation of Polysensitization
- Ideal Alternative when Skin Prick Test is not Indicated
- Requires Minimal Amount of Patient Serum

Recommended Allergens Based on Symptoms and Age:

Disease	Symptoms	Age Categories	
		Children < 3-4 Years	Children > 3-4 Years
Asthma	Wheezing, cough, shortness of breath	<ul style="list-style-type: none"> • Foods • Pets • Dust Mites 	<ul style="list-style-type: none"> • Dust Mites • Pollens
Allergic Rhino-Conjunctivitis ("Hay Fever")	Nasal and/or ocular pruritis	<ul style="list-style-type: none"> • Pollens 	<ul style="list-style-type: none"> • Pets • Airborne Mold Particles
Atopic Dermatitis (Allergic Eczema)	Pruritic dermatitis with or without urticaria (hives)	<ul style="list-style-type: none"> • Foods • Inhalants (to test atopic risk) <ul style="list-style-type: none"> - House dust mites - Cat, dog, etc. - Pollens 	<ul style="list-style-type: none"> • Foods • Inhalants (to test atopic risk) <ul style="list-style-type: none"> - House dust mites - Cat, dog, etc. - Pollens

