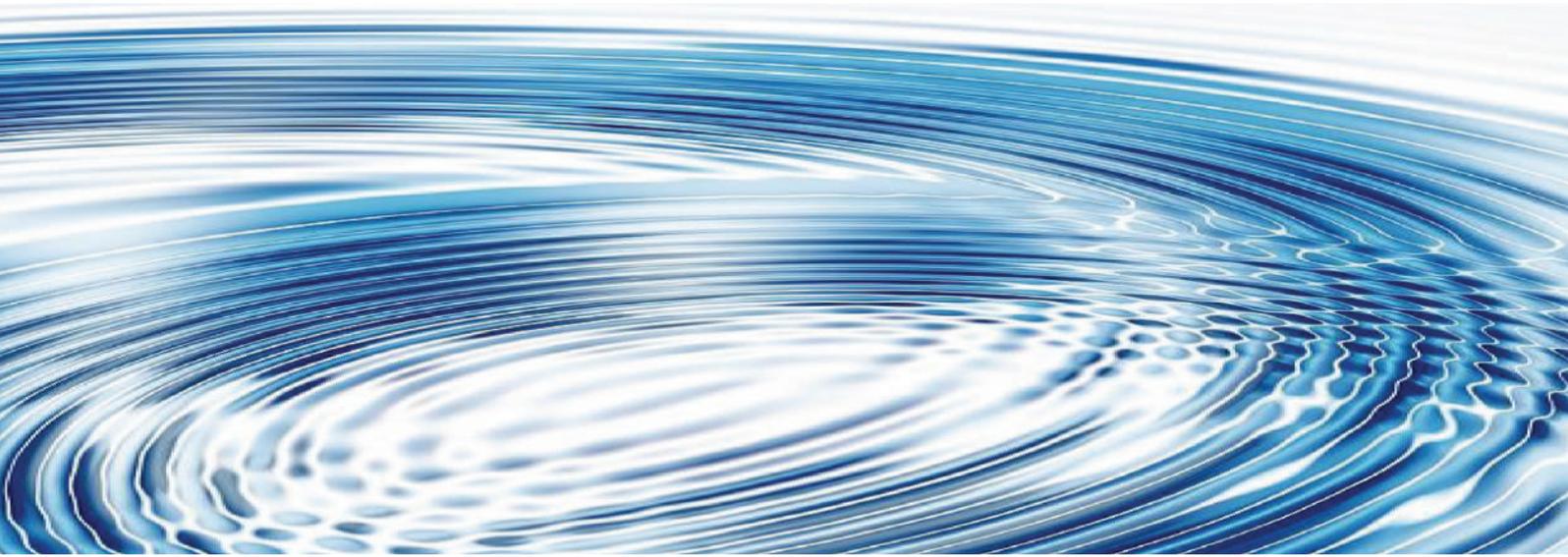




***ProteomeTech***

**Product List**



**Innovative Technology &  
Novel Bio-Products**



# Allergy Screening Test



## Type of panel

50 lines Panel: 44 specific allergens including Total IgE

PROTIA *Allergy-Q* Atopy panel Total 48 allergens

64 lines Panel: 64 specific allergens including Total IgE

PROTIA *Allergy-Q64* Inhalant panel Total 64 allergens

PROTIA *Allergy-Q64* Food panel Total 72 allergens

PROTIA *Allergy-Q64* S panel Total 63 allergens

PROTIA *Allergy-Q64* Atopy panel Total 62 allergens

96 lines Panel: 107 specific allergens including Total IgE

PROTIA *Allergy-Q96* M panel Total 107 allergens



< 64 lines



96 lines >

## Characteristics of PROTIA™ *Allergy-Q*

1) The World's largest number of allergens testing

- Over 60 allergens per panel
- Maximum 107 allergens testing in a PROTIA Allergy-Q 96M

2) Compact configuration

- Multiple columns of allergen loaded in a single panel to save time and cost
- Increases the number of analyzed allergen per operation by 2 or 3 fold

3) Small blood volume for testing (Useful for pediatric purpose)

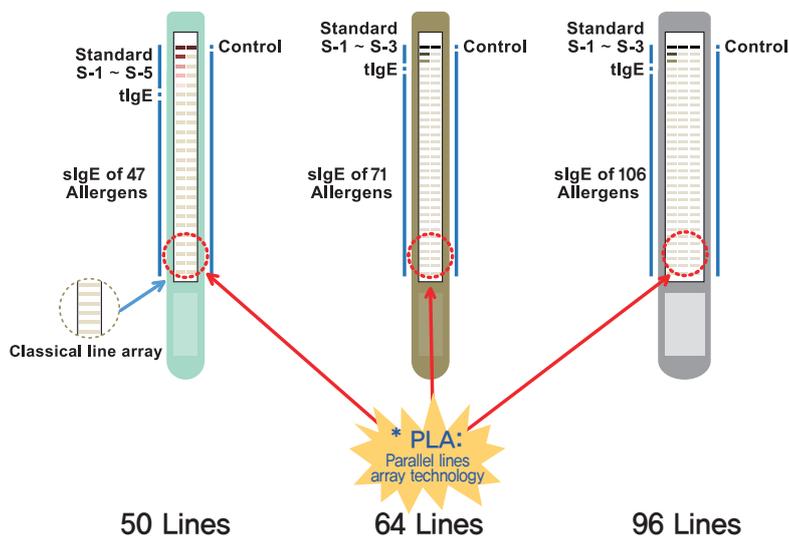
- Requires only 50  $\mu\text{l}$  serum or plasma for over 60 allergens test
- Requires only 100  $\mu\text{l}$  serum or plasma for over 100 allergens test

4) On-strip calibration

- Quantitative analysis with multiple standard lines in a single panel

5) Valuable and Informative report format

## Technology



■ Parallel lines array (PLA) multiple biochip technology  
(Patent registered KR 1570327)

■ Number of allergens

- Atopy panel (48 allergens)
- Inhalant panel (64 allergens)
- Food panel (72 allergens)
- 64S panel (63 allergens)
- 10A panel (12 allergens)
- 64 Atopy panel (62 allergens)
- 96M panel (107 allergens)

■ Internal calibration by standard lines in each panel

## Instruments

### Q-STATION ELITE



#### <Fully automatic system>

- Excellent durability
- Accurate dispensing of reagent and sample (CV < 0.1%)
- Easily set the panel onto holder
- 40~48 tests in one process (Increased efficiency)
- Barcode reading function
- Panel heating system
- Test different panels (Inhalant, Food, Atopy, 64S, 96M etc.) at a time is possible

### Q-SMART



#### < Reading system >

- Scanning method Reader
- Easy and safe handling
- Multiple language available
- 10 tests in one process
- Compact size (30 x 31 x 8 cm)

### Q-PROCESSOR



#### < Automatic processor >

- Automatic processing
- Integrated PC
- 10 tests in one process

# Immune Health Monitoring Kit



## Type of ImmuneCheck™ IgG



ImmuneCheck IgG



ImmuneCheck IgG-F

## Characteristics of ImmuneCheck™ IgG

1. The World's first total IgG concentration measurement kit with whole blood
2. Get the results in 20 minutes without any extra instrument
3. Use 5  $\mu\text{l}$  blood sample

## Test procedures and result interpretation

5  $\mu\text{l}$

10~15 seconds

4 drops (100  $\mu\text{l}$ )

20 min.

Q-Reader\*

Concentration Decision Board

Lot. No. HIF16001

Strip No.	1	2	3	4	5	6	7	8	9	10	
Human IgG Concentration mg/dL	0	7.8	31	125	250	500	750	1000	1500	2000	
Relative Signal Intensity to Control line (C Line=1)											
Test line 2	2.7	2.2	1.8	1.1	0.8	0.5	0.4	0.3	0.2	-	
Test line 1	-	1.5	2.0	1.7	1.4	1.0	0.8	0.5	0.3	0.2	
	Extremely Decrease			Decrease		Normal		Increase			Extremely Increase

Homepage: <http://www.proteometech.com>

ProteomeTech Inc.

1. See the test line (2) and approximate test line level in the concentration decision board.
2. Decide the strip number by comparing the relative color ratio of the test line (1) to control line (C).
3. Read the IgG concentration of whole blood on (Concentration decision board).

\* Please refer to the instruction.

\*Q-Reader: Quantitative measurement, Easy use, Fast check the result

# Novel Pregnancy Test



## Innovative pregnancy test, TriCheck



[ TriCheck ]



[ TriCheck-C ]

Additional test line (T2) only available in TriCheck  
Function of test line 2 (T2)

- ✓ Strong T2 color signal at low hCG level.
- ✓ No signal at high hCG level.

➔ Allows determination even in excessively high hCG level.

Conventional test kits have a false negative pitfall that misinterprets pregnancy as non-pregnancy in case of excessively high hCG level.

Test result	Conventional test	TriCheck
Not-pregnant	 Negative	 Negative
Pregnant	 Positive	 Positive
Pregnant <b>HighH conc. hCG &amp; hCGβcf</b>	 <b>False Negative</b>	 <b>Positive</b>
	↓   ↓ T   C	↓   ↓   ↓ T1   C   T2

## Characteristics of TriCheck

1. Quick urine test that can be done in 3~5 minutes for early pregnancy diagnosis by detection of hCG concentration above 25 mIU/mL
2. Can be used throughout all periods of pregnancy
3. Applicable also for those with irregular menstrual cycle
4. Reliable pregnancy test that overcomes the false negative misinterpretation due to high concentration of hCG & hCGβcf
5. Pregnancy test with enhanced precision with an additional test line

## Technology Q-Rapid test AD

1. Discriminate the false negative range using two different assays on a single strip  
→ Allows rapid quantitative test
2. Two assays methods in one
  - Sandwich immunoassay (Test line 1)
  - Competitive immunoassay (Test line 2)
3. New Excellent Technology from Ministry of Health and Welfare, Republic of Korea in 2015 (Certificate No. 00111)
4. Jang Young-Shil Award from Ministry of Science and ICT in Republic of Korea (2017)
5. Patent registered: KR 1540608



\*Quantitative Rapid Test with alternative detection line

# Food Intolerance Test

## PROTIA™ *Food IgG*



## Characteristics of PROTIA™ *Food IgG*

1. Immunoblot assay for the quantitative detection of food specific IgG antibodies in human serum
2. Applicable with Automatic & Semi-Automatic Instrument
3. Line blot immunoassay: reproducible principle compare to conventional test kit (96well plate or Dot blotting method)
4. On-strip calibration
5. Valuable and informative report format

## Type of panel

1. 60 food allergens in one panel
2. 90 food allergens in one panel

## What is food intolerance?

1. Induced when the immune system produces specific IgG antibodies.  
These antibodies may cause inflammatory processes.
2. The symptoms appear up to three days after consumption of a trigger food.
3. Clinical symptoms
  - Gastrointestinal disorders : Diarrhoea, Nausea, Irritable bowel syndrome(IBS) etc
  - Skin problems : Atopic dermatitis, Dry skin, Eczema, Acne etc
  - Psychological conditions : Depression, Behavioural disorders.
  - Non-coeliac gluten sensitivity chronic pain : Headaches, Migraines, Muscle and Joint pain
  - Weight issues : Weight problems / yo-yo effect, Obesity, Water retention



Panel

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