

ITEA Inc. Institute of Tokyo Environmental Allergy

Products for environmental allergen research



Pack Size

30 mL x 2

30 mL x 1

3

1

(for 600 mL)

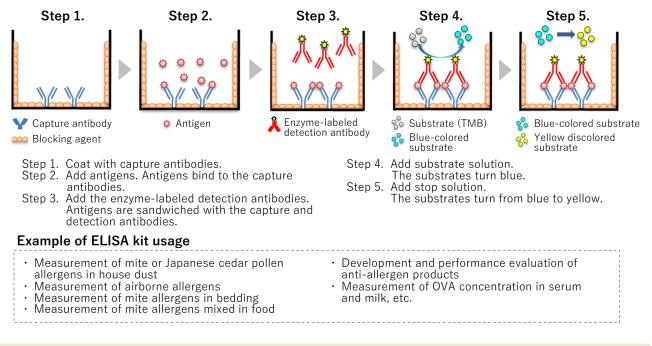
Sandwich ELISA (Enzyme-linked immunosorbent assay) is a method for detecting and quantifying allergens using two types of antibodies that react specifically to a target allergen. As for ELISA kits ITEA offers, you can choose from the followings:

All-in-one type including microplates pre-coated with capture antibody and necessary reagents. Self-build type consisting of capture antibody, enzyme-labeled detection antibody and standard.

* Sales of the Self-build ELISA kits have been suspended from May 2025.

1. Product Overview

After 5 steps below, the absorbance is measured and the antigen concentration in the sample is calculated from the standard curve.



ITEA ELISA Kits are including the followings:

All-in-one type



* The photo is for illustrative purposes only.

Pack Size Reagents Reagents Capture antibody coated 2 packs(8 wells Dilute solution microplates ×6 strips/pack) (for sample and reagent) Standard (lyophilized) Wash solution For 4 (20 x concentrated) * The quantity varies from lot to measurements lot. Microplate seal Enzyme-labeled antibody^{*1} 12 mL x 1 Lot information sheet TMB solution 12 mL x 1 Manual Stop solution *1 Only #1-DFH-001 contains Biotin-labeled anti-Der f 1 12 mL x 1 antibody 120 µL x 1 (0.5 M sulfuric acid) *2 Only #1-DFH-001 contains enzyme-labeled streptavidin 120 µL x 1.

	Se	lf-l	bui	ld	type
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* The photo is for illustrative purposes only

Reagents	Pack size *3
Capture monoclonal antibody for coating	1
Standard (lyophilized)	The quantity varies from lot to lot.
Biotin-labeled or HRP-labeled monoclonal antibody	1
Lot information sheet, Manual	1

*3 For 3 measurements using a 96-well plate.

2. Product Info

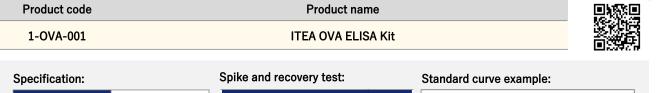
All-in-one type

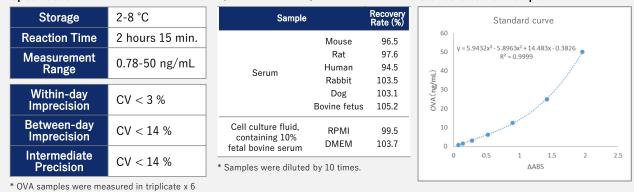
These are All-in-one type ELISA kits which include microplates pre-coated with capture antibody and necessary reagents. ITEA offers ELISA kits for major allergens of Japanese cedar pollen, house dust mites and OVA with the following features.

SPEEDY	HIGHLY SENSITIVE	SPECIFIC	CONVENIENT
${}^{\text{Reaction}}_{\text{Time}}2_{h}15_{\text{min}} \cdot 3_{h}45_{\text{min}}$	Measurement	to major	Measurable at
	Range From 31.2 pg/mL	allergens	room Temp.

This kit is designed to measure OVA from chicken eggs.

It can be used for measuring OVA in immunological and allergic studies.





times and the reproducibilities were evaluated.

This is an ELISA kit to measure Cry j 1, one of major allergen of Japanese cedar pollen, *Cryptomeria japonica*, which is suitable for measurement of Cry j 1 in samples, evaluation verification of allergen reduction effect, etc.

Product code		P	roduct name						For info	۴Ø
1-CJ1-001		ITEA	Cry j 1 ELISA Kit							ł,
pecification:				Standa	ard curve	e exan	nple:			
Storage	2-8 °C	Within-day	CV < 3 %		:	Standar	d curve	9		
Reaction Time	2 hours 15 min.	Imprecision		12						
Measurement	0.16-10 ng/mL	Between-day Imprecision	CV < 7 %	10	y = 0.0792x	³ +0.2088) R ² =		2x+0.005	•	
Range		Intermediate Precision	CV < 8 %	Cry j 1 (ng/mL) 6 9 8						
		* Cry j 1samples were m times and the reprodu	easured in triplicate x 6 cibilities were evaluated.				.•			
				0	0.5	1	1.5	2	2.5	3

For more information ↓

These are ELISA kits to measure major allergens of house dust mites, which are suitable for detection of mite allergens in house dust, inspection of mite contamination in food ingredients, and verification of allergen reduction effect, etc.

O What is house dust mite?

House dust mites are the most common species found in homes. They are often in bedding, carpets, sofas, etc. and are considered as the major inhalant allergens. Of these, the following two species of the genus *Dermatophagoides* sp. account for most of the indoor dust mites:

Dermatophagoides farinae

Dermatophagoides pteronyssinus

Der f 1 ... Major allergen derived from feces of *D. farinae*

- Der p 1 ··· Major allergen derived from feces of *D. pteronyssinus*
- Der f 2 ... Major allergen derived from bodies of *D. farinae*
- Der p 2 ··· Major allergen derived from bodies of *D. pteronyssinus*

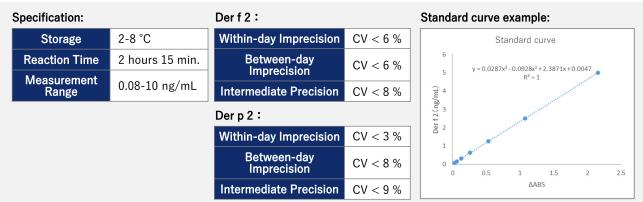


Product code	Product name	For more information #1-DF1-001↓	For more information #1-DP1-001↓
1-DF1-001	ITEA Der f 1 ELISA Kit		
1-DP1-001	ITEA Der p 1 ELISA Kit		

pecification:		Der f 1:		Standard curve example:
Storage	2-8 °C	Within-day Imprecision	CV < 4 %	Standard curve
Reaction Time	2 hours 15 min.	Between-day Imprecision	CV < 8 %	35 30 y = 0.3115x ³ + 0.0478x ² + 5.1055x - 0.0588
Measurement Range	0.23-30 ng/mL	Intermediate Precision	CV < 9 %	R ² = 1
		Der p 1:		225 20 11 15 15 10
		Within-day Imprecision	CV < 5 %	
		Between-day Imprecision	CV < 4 %	
		Intermediate Precision	CV < 6 %	ΔABS
				cate x 6 times and the reproducibilities were

Product code	Product name	For more information #1-DF2-001↓	For more information #1-DP2-001↓
1-DF2-001	ITEA Der f 2 ELISA Kit*1		
1-DP2-001	ITEA Der p 2 ELISA Kit*2		

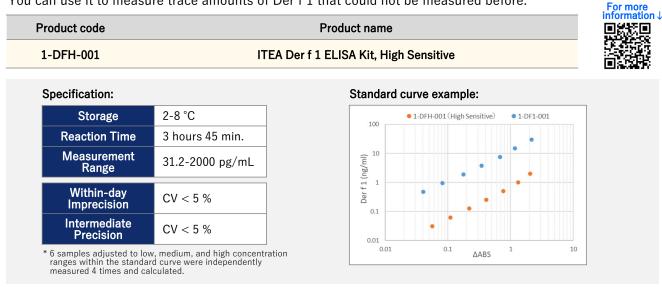
*1 Der f 2 concentration in samples including Der f 2 and Der p 2 cannot be precisely quantified with this kit since it has cross-reactivity to Der f 2 and Der p 2.
 *2 Der p 2 concentration in samples including Der f 2 and Der p 2 cannot be precisely quantified with this kit since it has cross-reactivity to Der f 2 and Der p 2.



* Der f 2 or Der p 2 samples were measured in triplicate x 6 times and the reproducibilities were evaluated.



This is a highly sensitive ELISA kit for Der f 1 with a measurement range of 31.2-2000 pg/mL. You can use it to measure trace amounts of Der f 1 that could not be measured before.



Self-build type

These consist of capture antibody for coating, enzyme-labeled detection antibody and standard which are necessary for measuring the major allergen of Japanese cedar pollen or house dust mites by sandwich ELISA. The reagents can be used according to the amounts of microplates required, eliminating waste of reagents and saving space for storage.



* Sales of the Self-build ELISA kits have been suspended from May 2025.

You can choose labeled-antibodies from biotin-labeled or HRP-labeled.

Storage 2-8 °C

Label	Product code	Product name
Biotin-labeled	1-CJ1-002	ITEA Cry j 1 ELISA Self-build Kit (Biotin-labeled)
	1-DF1-002	ITEA Der f 1 ELISA Self-build Kit (Biotin-labeled)
	1-DP1-002	ITEA Der p 1 ELISA Self-build Kit (Biotin-labeled)
	1-DF2-002	ITEA Der f 2 ELISA Self-build Kit (Biotin-labeled)*1
HRP-labeled	1-CJ1-003	ITEA Cry j 1 ELISA Self-build Kit (HRP-labeled)
	1-DF1-003	ITEA Der f 1 ELISA Self-build Kit (HRP-labeled)
	1-DP1-003	ITEA Der p 1 ELISA Self-build Kit (HRP-labeled)
	1-DF2-003	ITEA Der f 2 ELISA Self-build Kit (HRP-labeled)*1

*1 Der f 2 concentration in samples including Der f 2 and Der p 2 cannot be precisely quantified with this kit since it has cross-reactivity to Der f 2 and Der p 2.



Reagent protocols for ELISA are available from the following URL or from the 2D code.

Reagent protocols for ELISA https://itea-ec.com/pages/ elisa-reagent-recipe



SDSs for all products are available from the following URL or from the 2D code.

 Document download https://www.itea.jp/en/ document-download/



ITEA offers various crude and purified extracts that were prepared from major environmental allergens: house dust mites, pollens, pets, and fungi.

1. House Dust Mite Crude Extracts

Lyophilized extracts

These are lyophilized crude extracts made from the growth culture or bodies of *D. farinae* or *D. pteronyssinus*. Reconstitute the lyophilizate in 1mL of distilled water to make a phosphate buffered saline (PBS) solution (pH7.4).

	Storage	2-8 °C	
	Appearance	Lyophilized crude extract	
<u>ダニ(Dp)培地抽些</u> ^{Code} No. 10101 ^{Balume: 1} Init/vial ^{Balume: 1} Init/vial ^{Balume: 1} Sore at 2-8 °C	Specification	Contains preservatives. Adding 1 mL of distilled water makes it a PBS solution (pH 7.4).
DITEA	Attachment	Product information, Certificate of analysis	
Product co	ode	Product name	Pack Size
Product co 4-DF-00		Product name House Dust Mite Extract, Whole Culture (Df)*1	Pack Size Der f 1, 10 µg
)1		

*1 Extracted from growth media (including feed and feces)

4-DP-002

*2 Extracted from mite bodies

Extracts containing 50% glycerol

These are crude extracts of mite allergens that can be used as an antigen for ISO 4333. #4-DF-004 should be diluted 1000 times with PBST, and #4-DP-004 should be diluted 500 times with PBST before use.

House Dust Mite Extract, Whole Body (Dp) *2

	Storage	-20 °C*3
	Appearance	Crude extract containing 50% glycerol
	Specification	Contains preservatives. 1 mL/tube. #4-DF-004: 15 μg/mL x 1 tube, #4-DP-004: 7.5 μg/mL x 2 tubes
	Attachment	Product information, Certificate of analysis

Product code	Product name	Pack Size
4-DF-004	House Dust Mite Extract, Whole Culture (Df) (Contains 50% glycerol)*4	Der f 1, 15 µg
4-DP-004	House Dust Mite Extract, Whole Culture (Dp) (Contains 50% glycerol)*4	Der p 1, 15 µg

*3 Storage at -25°C or less may cause frozen because of glycerol containing. *4 Extracted from growth media (including feed and feces)

For Immunization (0.2 μ m filter sterilized, preservative free)

These are suitable for generating of asthma model mice by exposure to mite allergens.

	Storage	-20°C or less (-80°C recommended)	
<u>ダニ (Df)</u> 差 (dd: Al-1007	Appearance	Crude extract. 1 mL frozen PBS solution (pH 7.4) .	
<u>ダニ (Of) 後</u> Code No. 1078 電気調査 運動。 医調 電気: - 20 で5 S TEA	Specification	Sterilized with 0.2 μm filter. Protectants or preservatives fr	ee.
H	Attachment	Product information, Certificate of analysis	
Product	code	Product name	Pack Size
4-DF-0	003	House Dust Mite Extract For Immunization (Df)	Total protein, 1 mg
4-DP-003		House Dust Mite Extract For Immunization (Dp)	Total protein, 1 mg



Total protein, 5 mg



Allergen Extracts



Experimental examples of #4-DF-003, House Dust Mite Extract For Immunization (Df)

Experiment on the generation of HDM-induced airway inflammation model mice using BALB/c.

* Provided by Dr. Koichiro Takahashi, Department of Internal Medicine, Faculty of Medicine, Saga University.



Mice were administered intranasally with 25 µg as total protein of House Dust Mite Extract For Immunization (Df) (Df extract) on days 1, 8 and 15. Mice were challenged intranasally with 5 µg as total protein of Df extract on days 22, 23 and 24.

24 hours after the last intranasal dose, bronchoalveolar lavage fluid (BALF), lung histopathology, airway hyperresponsiveness, and pulmonary cytokine production were assessed.

Figure 1-1. Immunization schedule

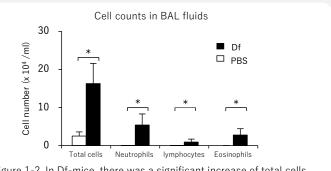


Figure 1-2. In Df-mice, there was a significant increase of total cells, neutrophils, lymphocytes and eosinophils in BAL fluid. *p<0.05 $\,$

Pathological findings of the pulmonary bronchi

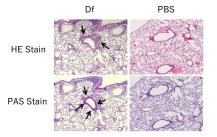
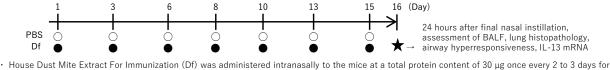


Figure 1-3. In Df-mice, there was a significant increase of total cells, neutrophils, lymphocytes and eosinophils in BAL fluid. *p<0.05

Experiment on the generation of asthma model mice using C57BL/6.

* Provided by Professor Naomi Yamashita, Department of Pharmacotherapy, Research Institute of Pharmaceutical Sciences, Musashino University. Mouse : Female C57BL/6 mice, 6-8 weeks old



a total of 7 times

· 24 hours after the last intranasal dose, BALF, lung histopathology, airway hyperresponsiveness, and IL-13 mRNA expression in the lung were assessed. Figure 2-1. Immunization schedule

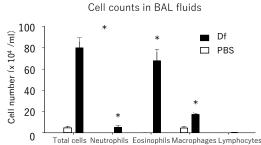


Figure 2-2. In the Df-mice, a significant increase in the total number of cells in the BALF was observed, and in particular, the increase in the number of eosinophils was remarkable.

Literatures on examples of experiments using 4-DF-003 can be found on the product page below. https://itea-ec.com/products/cd_4-df-003

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Pathological findings of the pulmonary bronchi PAS Stain HE Stain PBS Df PRS Df

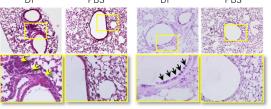


Figure 2-3. In the Df-mice, accumulation of inflammatory cells (eosinophil infiltration) under the airway epithelium and hyperplasia of goblet cells in the mucosal epithelium were observed.

Allergen Extracts

2. Pollen Allergen Crude Extracts

We can also produce in other specifications or other pollen extracts not listed below.

Lyophilized extracts

4-AA-001

These are lyophilized crude extracts made from pollen. Reconstitute the lyophilizate in 1mL of distilled water to make a phosphate buffered saline (PBS) solution (pH7.4).

	Storage	2-8 °C	
	Appearance	Lyophilized crude extract	
<u>スギ花粉抽出物</u> Code No. 10103 ば Volume: 1 mL/vial 10 µg/mL Cry 1 1 Sorre at 2.8 °C	Specification	Contains preservatives. Adding 1 mL of distilled water makes it a PBS solution	(pH 7.4).
OITEA	Attachment	Product information, Certificate of analysis	
Product o	ode	Product name	Pack Size
4-CJ-00	01	Japanese Cedar Pollen Extract	Cry j 1, 10 µg
4-PP-0	01	Timothy Pollen Extract	Not specified.*1

*1 Only total protein concentration is measured, which varies from lot to lot.

Extracts contains 50% glycerol

This product is a crude extract of Japanese cedar pollen allergen that can be used as an antigen for ISO 4333. Dilute 500 times with PBST before use.

Ragweed Pollen Extract

4-CJ-00)4 J	apanese Cedar Pollen Extract (Contains 50% glycerol)	Cry j 1, 15 µg
Product c	ode	Product name	Pack Size
	Attachment	Product information, Certificate of analysis	
Avant Avant	Specification	Contains preservatives. 1 mL/tube (7.5 µg/mL x 2 tubes)	
	Appearance	Crude extract containing 50% glycerol	
	Storage	-20 °C*2	

*2 Storage at -25°C or less may cause frozen because of glycerol containing.

Frozen solutions (0.2 µm filtered, no preservatives)

These are crude extracts of a frozen solution prepared from pollens, which are sterilized through a 0.2 µm filter and contain no protectants or preservatives.

Product	aada	Product name	Pack Size
H	Attachment	Product information, Certificate of analysis	
Rite Brann Mar and State States and State States and State States and State States and State States and States States and States and States States and States and States and States States and States and States and States and States States and States and Stat	Specification	Sterilized with 0.2 μm filter. Protectants or preservatives free.	
^入 半花粉抽出 ³² μm フィル	Appearance	Crude extract. 1 mL frozen PBS solution (pH 7.4) .	
	Storage	-20°C or less (-80°C recommended)	

Product code	Product name	Pack Size
4-CJ-005	Japanese Cedar Pollen Extract (0.2 μm filtered, no preservatives)	Cry j 1, 10 µg
4-PP-005	Timothy Pollen Extract (0.2 μm filtered, no preservatives)	Not specified.*3
4-AA-005	Ragweed Pollen Extract (0.2 μm filtered, no preservatives)	Not specified.*3

*3 Only total protein concentration is measured, which varies from lot to lot.



Not specified.*1





Purified Allergens

ITEA offers purified major allergens of Japanese cedar pollen and cypress pollen. Please use them in your research in addition to our conventional crude extracts.

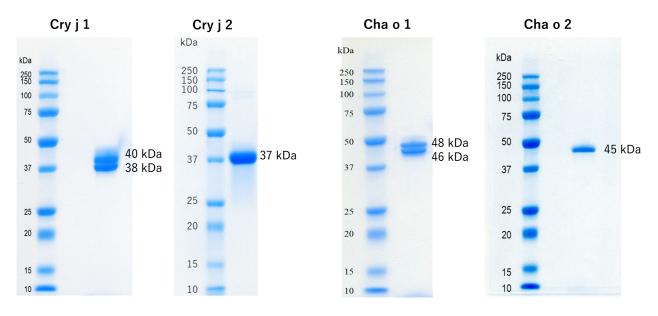


	Storage	-20°C or less (-80°C recommended)
開催スキャ Toter No. 3-201 Wainer 19 ad	Purification Method	Purified by ammonium sulfate salting out and various types of chromatography.
MAREPUNPLIN)	Specification	 Purity 95% and more. Contains 50 or 25 μg/tube of purified allergen, which have been measured by the Lowry method using BSA as a standards. Frozen solution Protectants or preservatives free
	Attachment	Product information, Certificate of analysis

Product code	Product name	Pack Size
3-CJ1-001	Cry j 1, Purified Japanese Cedar Pollen Allergen	50 µg
3-CJ2-001	Cry j 2, Purified Japanese Cedar Pollen Allergen	25 µg
3-CO1-001	Cha o 1, Purified Cypress Pollen Allergen	50 µg
3-CO2-001	Cha o 2, Purified Cypress Pollen Allergen	25 μg

O Electrophoretic images

All electrophoresis were performed under reducing conditions.



3. Pet Allergen Crude Extracts

As more and more people keep pets indoors, the number of people suffering from pet allergies has been increasing in recent years. It has been revealed that the exposure to dog or cat allergens in households where dogs or cats are kept is greater than the mite allergens that cause childhood asthma.

Lyophilized extracts

These are lyophilized crude extract made from hair or epithelium of dog or cat. Reconstitute the lyophilizate in 1mL of distilled water to make a phosphate buffered saline (PBS) solution (pH7.4).

Storage 2-8 °C			
	Appearance	Lyophilized crude extract	
Contains preservatives. Contains preservatives. Adding 1 mL of distilled water makes it a PBS solution (pH 7.4).		PBS solution (pH 7.4).	
ÛITEA	Attachment	Product information, Certificate of analysis	
Product c	- 4-		
FIGURE	oae	Product name	Pack Size
4-CF-00		Product name Dog Hair and Epithelia Extract ^{*1}	Not specified.*2
	01		

*1 #4-CF-001 will be discontinued as soon as stock runs out from October 7, 2024.

*2 Only total protein concentration is measured, which varies from lot to lot.

*3 Major allergen and total protein concentration are measured, which vary from lot to lot.

Frozen solutions (0.2 μm filtered, no preservatives)

These are crude extracts of a frozen solution prepared from hair or epithelium of dog or cat, which are sterilized through a 0.2 μ m filter and contain no protectants or preservatives.

	Storage	-20°C or less (-80°C recommended)
1天被毛」上 (22 gan 24) Gada Note 4 G Walans 1 m	Appearance	Crude extract. 1 mL frozen PBS solution (pH 7.4) .
Code No.4-O Volume: 1 m Rore at -91	Specification	Sterilized with 0.2 μm filter. Protectants or preservatives free.
Bore at -S'	Attachment	Product information, Certificate of analysis

Product code	Product name	Pack Size
4-CF-005	Dog Hair and Epithelia Extract ^{*4} (0.2 μm filtered, no preservatives)	Not specified.*5
4-FD-005	Cat Hair and Epithelia Extract ^{*4} (0.2 μm filtered, no preservatives)	Not specified.*5
4-CF-015	Dog Hair Extract (0.2 μm filtered, no preservatives)	Not specified.* ⁶ (major allergen concentration noted.
4-FD-015	Cat Hair Extract (0.2 μm filtered, no preservatives)	Not specified.* ⁶ (major allergen concentration noted.

*4 #4-CF-005 and #4-FD-005 will be discontinued as soon as stock runs out from October 7, 2024.

*5 Only total protein concentration is measured, which varies from lot to lot.

*6 Major allergen and total protein concentration are measured, which vary from lot to lot.





Allergen Extracts

4. Fungi Allergen Crude Extracts

Alternaria alternata and *Aspergillus fumigatus* are important fungi that are risk factors for the onset and exacerbation of allergic diseases such as allergic rhinitis and asthma.

Lyophilized extracts

These are lyophilized crude extract made from mold powder containing both mycelium and spores. Reconstitute the lyophilizate in 1mL of distilled water to make a phosphate buffered saline (PBS) solution (pH7.4).

	Storage	2-8 °C	
<u>ブルテルナリア世</u> なる No. 10117 ¹⁰ Nore at 2.8 ℃	Appearance	Lyophilized crude extract	
	Specification	Contains preservatives. Adding 1 mL of distilled water makes it a PBS solution (pH	7.4).
DITEA	Attachment	Product information, Certificate of analysis	
Product c	ode	Product name	Pack Size
4-AT-00	01	Fungi Extract (<i>Alternaria alternata</i>)	Not specified.*1
4-AS-00)1	Fungi Extract (<i>Aspergillus fumigatus</i>)	Not specified.*1

*1 Only total protein concentration is measured, which varies from lot to lot.

Frozen Solutions (0.2 μm filtered, no preservatives)

These are crude extracts of a frozen solution extracted from mold powder (containing both mycelium), which are sterilized through a 0.2 μ m filter and contain no protectants or preservatives.

	Storage	-20°C or less (-80°C recommended)	
	Appearance	Crude extract. 1 mL frozen PBS solution (pH 7.4) .	
	Specification	Sterilized with 0.2 μm filter. Protectants or preservative	es free.
	Attachment	Product information, Certificate of analysis	
Product	code	Product name	Pack Size
Product of 4-AT-0		Product name Fungi Extract (<i>Alternaria alternata</i>) (0.2 μm filtered, no preservatives)	Pack Size Not specified.*2

*2 Only total protein concentration is measured, which varies from lot to lot.

SDSs for all products are available at the following URL or 2D code.

• Document download https://www.itea.jp/en/ document-download/



Other made-to-order products

Please feel free to contact us if you would like specifications other than those listed in this catalog (allergen type, amount, concentration, extraction solvent, etc.).

E-mail reag-info@itea.jp







Antibodies

We offer polyclonal antibodies for bovine serum albumin (BSA).

Non-labeled polyclonal antibody

i	information

Antibody, 0.1 mg

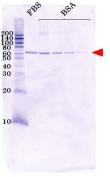
	Storage	2-8 °C		
ITEA Bi 49 025 We Bar Na Iso 100 We Bar Na Iso 100 We Bar Na Iso 100 We Bar	Appearance	Lyophilized		
	Specification	Contains preservatives. Anti-BSA antibody, 0.1 mg Adding 50 μL of distilled water makes it a PBS solution (pH 7.4) with an antibody concentration of 2 mg/mL.		
APPENDE AND	Attachment	Product information	uct information	
Product code		Product name	Pack size	

2-BP-001

Rabbit Anti-BSA Polyclonal Antibody

Example of use: Western Blotting

Recommended antibody concentration: 0.5-1 $\mu\text{g/mL}$



- Sample: FBS, BSA (0.5, 0.25, 0.125, 0.0625 µg/lane)
- 1) Block the membrane with a blocking agent without BSA.
- Incubate for 1 hour at room temperature.
- 2) Use the antibody adjusted to 1 $\mu g/mL$ in diluent containing blocking agent. Incubate for 1 hour at room temperature.
- 3) Use alkaline phosphatase-conjugated anti-rabbit IgG antibody adjusted with diluent. Incubate for 1 hour at room temperature.
- 4) A band is detected with BCIP/NBT at the position of molecular weight that matches BSA.

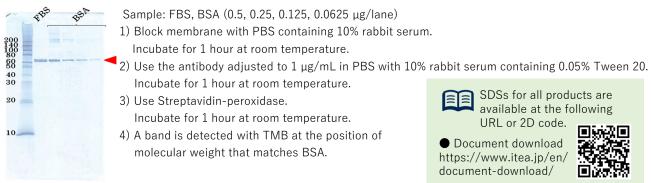
Biotinylated polyclonal antibody

	Storage	2-8 °C
	Appearance	Lyophilized
	Specification	Contains preservatives. Anti-BSA antibody, 0.1 mg Adding 200 μL of distilled water makes it a PBS solution (pH 7.4) with an antibody concentration of 500 $\mu g/m L$.
	Attachment	Product information

Product code	Product name	Pack size
2-BP-002	Biotinylated Rabbit Anti-BSA Polyclonal Antibody	Antibody, 0.1 mg

Example of use: Western Blotting

Recommended antibody concentration: 0.5-1 $\mu\text{g/mL}$



FAQ



Here are some of the questions we receive from our customers about our products.

Q How do I purchase the products? А Our products can be purchased through reagent dealers. Q How can I inquire about your products; inventory, due dates, specifications, etc.? For inquiries А If you have any questions about our products, please feel free to contact us. ITEA Inc. Reagent Development Dept. 回火回 E-mail: reag-info@itea.jp, FAX: +81-3-3526-2032 For inquiries https://www.itea.jp/en/inquiry/ Q I want to purchase only standard solutions and antibodies. Do you sell reagents separately from the ELISA kit? А As ELISA Self-build Kits, we provide sets of capture monoclonal antibody for coating, biotin- or **ELISA Kits** HRP-labeled detection monoclonal antibody and standard solution. l 🖬 🕰 Product code: 1-CJ1-002, 1-DF1-002, 1-DF2-002, 1-DP1-002, 1-CJ1-003, 1-DF1-003, 1-DF2-003, 1-DP1-003 *** Sales of the Self-build ELISA kits have been suspended from May 2025.** ELISA Kits https://www.itea.jp/en/product-info-elisa-kits/#elisa Q Do the extracts dissolve in distilled water? А Yes, they dissolve completely in distilled water and will become phosphate buffered saline (PBS) solutions (pH7.4). However, some cloudiness may occur. Q Why is filtration performed in the process of producing extracts? А The purpose of filtration depends on the pore size of the filter. A 0.8 µm or 0.45 µm membrane will filter out impurities in the extract. Using a 0.2 µm filter is intended for filtration of smaller particles like microorganisms, sediments, etc. Q Does the preservative contained in the extract affect the ELISA measurement system? А Proclin[™] 950 is added as preservatives, which has no effect on the enzymes used in routine ELISA. Products without preservatives are also available. Please feel free to consult us. Q Can you make a product without preservatives for your regular product? Product Info А You can purchase extracts that are sterilized with 0.2 µm filter and preservative-free from us. For more information, please see below. Product Info https://www.itea.jp/en/product-info/#allergen Q Can ITEA extracts be used with kits made by other companies? Α Yes, they can. However, depending on the kit type, the allergen concentration stated in the specification of ITEA may differ slightly. Q If the allergen concentration or total protein concentration is not specified for the product, can you still tell me the concentration? Yes. However, you will be requested to pay a measurement fee, and there will be a separate delivery date. А Q Is a Certificate of Analysis attached to a product? А The following documents are attached, depending on products: • FLISA Kits: Manual Docu. download · Extracts: Product Information, Certificate of Analysis Antibodies: Product Information l∎ivi2[The Safety Data Sheet (SDS) of each product can be viewed and downloaded from the 2D code shown on the right. Q Some of the containers are different from before. А There are no specifications for the container. Please be advised that the shape of the container may change without notice.

ITEA Company Information



ITEA develops and manufactures allergen materials, antibodies, and immunoassays. We utilize these technologies to provide services to meet various needs in the allergen-related field.



Allergen Analysis Services

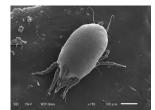
Support for development of environmental allergen control products

We support the business activities of our clients by proposing and carrying out the appropriate tests for each stage of the product development to sales process.

For more information →



Performance evaluations of allergen control products

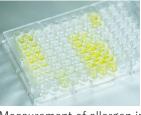


Taking images and videos of dust mites, pollen, and particles

DITE

academia

DITEA



Measurement of allergen in samples



Measurement and consultation regarding allergens in the indoor environment

Product Sales

Research and development support in the field of immunology and allergy

We support academia and companies through the development and sales of various reagents.



© Creating a system to reduce allergy symptoms through

O Development, manufacturing and sales of various ELISA kits, antibodies and allergen extracts

O Support for commercialization of research results in

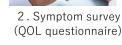
O Collaboration with academia or companies



We provide a consulting service to improve indoor environment by utilizing our knowledge of allergens and measurement technology.



For more information •





3. Environmental improvement consulting





the following three measures.

1. Measurement of allergens indoor

ITEA Technologies



Pioneering new technologies in the field of immunology and allergy

allergenic raw materials, allergen extraction and purification from raw materials, monoclonal antibody production, construction of immunoassays, and technologies such as increasing sensitivity and speed of ELISA.

Our products and services are based on a wide variety of



Carrying allergenic raw materials

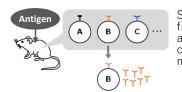
• We carry a wide variety of allergenic raw materials.



Monoclonal antibody production technology suitable for immunoassays

• Based on the technology for producing monoclonal antibodies using rodents, we have the technology to efficiently select monoclonal antibodies suitable for immunoassays.

New development through collaboration



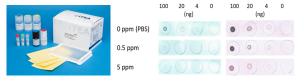
Select optimal cells from a variety of antibody-producing cells and purify monoclonal antibodies.

Technologies for allergen extraction and purification from raw materials

- Allergen extracts are prepared from raw materials.
- Chromatographic techniques are used to purify target allergens from crude extracts.
- Purified allergens are used as immunogens for monoclonal antibody production, etc.

Fundamental technologies for product evaluation

• We are working on the establishment of a highly sensitive sandwich ELISA system and the development of new methods for evaluating allergen-reducing agents, such as the dot-blot method. Immunostaining Protein staining

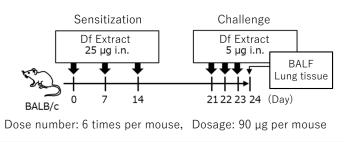


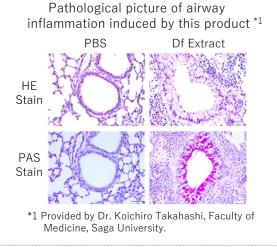
ELISA kit, High Sensitive



- House Dust Mite Extract For Immunization (Df) (4-DF-003) was created in collaboration with Dr. Koichiro Takahashi, Faculty of Medicine, Saga University.
- This product can stably induce allergic inflammation in the airways of BALB/c and C57BL/6 with a small number of doses and dosages, thus reducing the labor on experiments.

Example of an asthma induction protocol for this product





- ◎ References
- 1. Ishii T, et al. Time-dependent distinct roles of Toll-like receptor 4 in a house dust mite-induced asthma mouse model. Scand J Immunol. 2018;87(3):e12641.
- 2. Tashiro H, et al. Saturated Fatty Acid Increases Lung Macrophages and Augments House Dust Mite-Induced Airway Inflammation in Mice Fed with High-Fat Diet. Inflammation. 2017;40(3):1072-1086.
- 3. Tashiro H, et al. Interleukin-33 from Monocytes Recruited to the Lung Contributes to House Dust Mite-Induced Airway Inflammation in a Mouse Model. Ryffel B, ed. PLoS One. 2016;11(6):e0157571.

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