



CAST[®] Allergens

for
CAST[®] ELISA
Flow CAST[®]

Inhalant Allergens
Venom Allergens
Food & Food Additives
Environmental Allergens

For *In Vitro* Diagnostic Use.

BAG-XX/ BAG2-XX
BAG-XXX/ BAG2-XXX
BAG-XXXX/ BAG2-XXXX
BAG2-XXXXX

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INTENDED USE

CAST® Allergens are accessory reagents intended to be used in combination with the BÜHLMANN CAST® assays.

For laboratory use.

PRINCIPLE OF THE ASSAY

As described in the corresponding CAST® assay instruction for use (IFU) (ref. 1-26).

REAGENTS SUPPLIED AND PREPARATION

CAST® Allergens is a product family consist of several individual products. Each allergen from the menu (see table of content page 2-3) can be ordered individually and will be supplied in a delivery container (box or bag).

Reagents	Quantity	Code	Comments
CAST® Allergens	1 vial up to 4 tests	BAG-xx* BAG2-xx*	Dissolve according instruction below.

Table 1

* xx: 2 to 5 alphanumeric or numeric characters

The CAST® Allergens can be used in combination with:

- BÜHLMANN Flow CAST® (order code: FK-CCR)
- BÜHLMANN CAST® ELISA (order code: EK-CAST)

CHECK YOUR DELIVERY

BÜHLMANN CAST® Allergens have been manufactured with the greatest of care and all possible efforts have been taken to ensure completeness of delivery and its performance. Nevertheless, we advise you to verify your delivery container for the condition of the allergen vials based on the following criteria:

- Expiration date
- The fault-free condition of the vial

Should one of the allergen vials not fulfil the criteria mentioned above, please use another vial.

STORAGE AND SHELF LIFE OF REAGENTS

Unopened reagents	
CAST® Allergens BAG-xx* BAG2-xx*	Store at ≤ -20°C. Do not use the reagents beyond the expiration date printed on the labels.
Opened/ dissolved or diluted reagents	
CAST® Allergens BAG-xx* BAG2-xx*	Dissolved or diluted allergens must be used fresh.

Table 2

* xx: 2 to 5 alphanumeric or numeric characters

REAGENTS & MATERIALS SUPPLIED SUPPLEMENTARY

CAST® Assays

Two different CAST® Assays are available and are described in table 3. They have to be ordered separately.

CAST® Assay	Quantity	Code
Flow CAST® Basophil activation	Kit with 100 test units	FK-CCR
CAST® ELISA sLT release assay	Kit with 192 test units	EK-CAST
	Kit with 480 test units	EK-CAST5

Table 3

For more information visit www.buhmannlabs.ch/allergy

MATERIALS REQUIRED BUT NOT PROVIDED

- Vortex mixer
- Precision pipettes with disposable tips: 10-100 µL, and 100-1000 µL

PRECAUTIONS

Technical precautions

- In order to apply allergen specific cut-offs, quality control criteria published in the CAST® assay instructions must be fulfilled.

APPLICATION INSTRUCTIONS

In order to use the CAST® Allergens, assay specific Stimulation Buffer has to be added to the allergen vial:

CAST® ELISA: B-CAST-STB
Flow CAST®: B-CCR-STB

- Add 250 µL Stimulation Buffer into the vial and vortex until the allergen in the vial has completely dissolved.
- For some CAST® Allergens an additional dilution with Stimulation Buffer is suggested (refer to the paragraph „additional dilution“ in the allergen description).
- E.g. an „additional dilution“ of 1:5 is carried out by adding 40 µL allergen solution to 160 µL Stimulation Buffer.
- After dissolving or diluting, allergens are ready to use according to the respective CAST® assay IFU.

INTERPRETATION OF RESULTS

Interpretation of results refer to the respective CAST® assay IFU.

PERFORMANCE CHARACTERISTICS

See assay specific performance characteristic in the respective CAST® assay IFU.

Order Code	Name	Taxonomic
BAG2-I1	Honey Bee Venom	<i>Apis mellifera</i>
BAG2-I3	Yellow Jacket Venom	<i>Vespula spp.</i>
BAG2-I75	European Hornet Venom	<i>Vespa crabro</i>
BAG2-I77	European Paper Wasp Venom	<i>Polistes dominula</i>

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG2-I1	12.5 ng	10 ng/mL	≥270 pg/mL	11.5 ng/mL	≥10%
BAG2-I3	12.5 ng	10 ng/mL	≥270 pg/mL	11.5 ng/mL	≥10%
BAG2-I75	12.5 ng	10 ng/mL	≥200 pg/mL	11.5 ng/mL	≥10%
BAG2-I77	12.5 ng	10 ng/mL	≥200 pg/mL	11.5 ng/mL	≥10%

GRASSES

Order Code	Name	Taxonomic
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BAG-G6 **Timothy Grass** *Phleum pratense*

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-G6	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%

Order Code	Name	Components	Content per vial (ng)	Conc. after reconst. (ng/mL)
BAG-GX1	6-Grass Mix	Orchard Grass (G3)	4.2	17
		Meadow Fescue (G4)	4.2	17
		Rye Grass (G5)	4.2	17
		Timothy Grass (G6)	4.2	17
		Meadow Grass (G8)	4.2	17
		Velvet Grass (G13)	4.2	17
		Total Content	25	100

Assay / Format	CAST® ELISA	Flow CAST®
Conc. in stimulation	20 ng/mL	22.5 ng/mL
Cut-off	≥200 pg/mL	≥15% CD63

WEEDS

Order Code	Name	Taxonomic
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BAG-W19 **Pellitory** *Parietaria officinalis*

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-W19	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%

TREES

Order Code	Name	Taxonomic
BAG-T3	Common Birch	<i>Betula pendula</i>
BAG-T4	Hazel	<i>Corylus avellana</i>

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-T3	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-T4	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%

MOLDS

Order Code	Name	Taxonomic
BAG-M1	Penicillium	<i>Penicillium notatum</i>
BAG-M2	Cladosporium	<i>Cladosporium herbarum</i>
BAG-M3	Aspergillus	<i>Aspergillus fumigatus</i>
BAG-M5	Candida albicans	<i>Candida albicans</i>
BAG-M6	Alternaria	<i>Alternaria alternata</i>

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-M1	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-M2	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-M3	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-M5	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-M6	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%

MITES / ANIMALS

Order Code	Name	Taxonomic
BAG-D1	House Dust Mite	<i>Dermatophagoides Pteronyssinus</i>
BAG-D2	Am. House Dust Mite	<i>Dermatophagoides farinae</i>
BAG-E1	Cat Epithelium	<i>Felis domesticus</i> , epithelium
BAG-E2	Dog Epithelium	<i>Canis familiaris</i> , epithelium
BAG2-FELD1	rFel d 1 Cat	<i>Felinis domesticus</i> , Cat Major Allergen

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-D1	250 ng	200 ng/mL	≥200 pg/mL	225 ng/mL	≥15%
BAG-D2	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-E1	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-E2	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG2-FELD1	250 ng	200 ng/mL	≥200 pg/mL	225 ng/mL	≥15%

Order Code	Name	Components	Content per vial (ng)	Conc. after reconst. (ng/mL)
BAG-DX1	Mites Mix	<i>Acarus siro</i> (D70)	6.25	25
		<i>Lepidoglyphus destructor</i> (D71)	6.25	25
		<i>Tyrophagus putrescentia</i> (D72)	6.25	25
		<i>Glycyphagus domesticus</i> (D73)	6.25	25
		Total Content	25	100

Assay / Format	CAST® ELISA	Flow CAST®
Conc. in stimulation	20 ng/mL	22.5 ng/mL
Cut-off	≥200 pg/mL	≥15% CD63

INHALANT MIX

Order Code	Name	Components	Content per vial (ng)	Conc. after reconst. (ng/mL)
BAG-IX1	Inhalant Mix	6-Grass Mix (GX1)	25	100
		cult. Rye Grass (G12)	25	100
		Birch (T3)	25	100
		Hazel (T4)	25	100
		Mugwort (W6)	25	100
		Ribwort (W9)	25	100
		Alternaria (M6)	25	100
		House Dust Mite (D1)	25	100
		American House Dust Mite (D2)	25	100
		Cat Epithelium (E1)	25	100
		Dog Epithelium (E2)	25	100
		Total Content	275	1100

Assay / Format	CAST® ELISA	Flow CAST®
Conc. in stimulation	220 ng/mL	250 ng/mL
Cut-off	≥200 pg/mL	≥15% CD63

EGG / MILK

Order Code	Name	Taxonomic
BAG-F1	Egg White	<i>Gallus domesticus</i>
BAG-F75	Egg Yolk	<i>Gallus domesticus</i>
BAG-F2	Cow Milk	<i>Bos domesticus</i>
BAG-F76	α -Lactalbumin	<i>Bos domesticus</i>
BAG-F77	β -Lactoglobulin	<i>Bos domesticus</i>
BAG-F78	Casein	<i>Bos domesticus</i>

Assay / Format	CAST [®] ELISA			Flow CAST [®]	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-F1	25 ng	20 ng/mL	≥ 200 pg/mL	22.5 ng/mL	$\geq 15\%$
BAG-F75	25 ng	20 ng/mL	≥ 200 pg/mL	22.5 ng/mL	$\geq 15\%$
BAG-F2	25 ng	20 ng/mL	≥ 200 pg/mL	22.5 ng/mL	$\geq 15\%$
BAG-F76	25 ng	20 ng/mL	≥ 200 pg/mL	22.5 ng/mL	$\geq 15\%$
BAG-F77	25 ng	20 ng/mL	≥ 200 pg/mL	22.5 ng/mL	$\geq 15\%$
BAG-F78	25 ng	20 ng/mL	≥ 200 pg/mL	22.5 ng/mL	$\geq 15\%$

FISH / MEAT

Order Code	Name	Taxonomic
BAG-F3	Codfish	<i>Gadus callarias</i>
BAG-F24	Shrimp	<i>Pandalus borealis</i>
BAG-F27	Beef	<i>Bos domesticus</i>
BAG2-GAL	alpha-Gal-HSA	-

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-F3	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F24	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F27	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG2-GAL	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%

FRUITS / VEGETABLES

Order Code	Name	Taxonomic
BAG-F25	Tomato	<i>Solanum lycopersicum</i>
BAG2-MALD1	rMal d 1 Apple	<i>Malus domestica</i>

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-F25	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG2-MALD1	250 ng	200 ng/mL	≥200 pg/mL	225 ng/mL	≥15%

SEEDS / BEANS / NUTS

Order Code	Name	Taxonomic
BAG-F10	Sesame	<i>Sesamum indicum</i>
BAG-F13	Peanut	<i>Arachis hypogaea</i>
BAG2-ARAH1	nAra h 1 Peanut	<i>Arachis hypogaea</i>
BAG2-ARAH2	nAra h 2 Peanut	<i>Arachis hypogaea</i>
BAG2-ARAH6	nAra h 6 Peanut	<i>Arachis hypogaea</i>
BAG-F14	Soybean	<i>Glycine soja</i>
BAG-F17	Hazelnut	<i>Corylus avellana</i>
BAG-F20	Almond	<i>Prunus amygdalus</i>
BAG-F202	Cashew Nut	<i>Anacardium occidentale</i>
BAG-F203	Pistachio Nut	<i>Pistacia vera</i>
BAG-F256	Walnut	<i>Juglans regia</i>

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-F10	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F13	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG2-ARAH1	250 ng	200 ng/mL	≥200 pg/mL	227 ng/mL	≥10%
BAG2-ARAH2	5 ng	4 ng/mL	≥200 pg/mL	4.5 ng/mL	≥10%
BAG2-ARAH6	5 ng	4 ng/mL	≥200 pg/mL	4.5 ng/mL	≥10%
BAG-F14	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F17	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F20	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F202	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F203	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥10%
BAG-F256	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥10%

CEREALS

Order Code	Name	Taxonomic
BAG-F4	Wheat	<i>Triticum aestivum</i>
BAG-F5	Rye Flour	<i>Secale cereale</i>
BAG-F6	Barley Flour	<i>Hordeum sativum</i>
BAG-F7	Oat Flour	<i>Avena sativa</i>
BAG-F45	Baker's Yeast	<i>Saccharomyces cerevisiae</i>
BAG-F79	Gluten - Wheat	<i>Triticum aestivum</i>
BAG-F98	Gliadin - Wheat	<i>Triticum aestivum</i>

Assay / Format	CAST® ELISA			Flow CAST®	
	Content per vial	Conc. in stim.	Cut-off	Conc. in stim.	Cut-off (CD63)
BAG-F4	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F5	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F6	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F7	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F45	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥15%
BAG-F79	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥10%
BAG-F98	25 ng	20 ng/mL	≥200 pg/mL	22.5 ng/mL	≥10%

Order Code	Name	Components	Content per vial (ng)	Conc. after reconst. (ng/mL)
BAG-FX1	Food Mix	Egg White (F1)	12.5	50
		Egg Yolk (F75)	12.5	50
		Cow Milk (F2)	25	100
		Codfish (F3)	25	100
		Wheat (F4)	25	100
		Peanut (F13)	25	100
		Soybean (F14)	25	100
		Hazelnut (F17)	25	100
		Shrimp (F24)	25	100
		Total Content	200	800

Assay / Format	CAST® ELISA	Flow CAST®
Conc. in stimulation	160 ng/mL	182 ng/mL
Cut-off	≥200 pg/mL	≥15% CD63

FOOD COLORANT MIXES

Order Code	Name	Components	Content per vial (µg)	Conc. after reconst. (µg/mL)
BAG2-C101	Food Colorant Mix I	Quinoline Yellow (CE104)	25	100
		Sunset Yellow (CE110)	25	100
		Chromotrope FB (CE122)	25	100
		Amaranth (CE123)	25	100
		New Coccine (CE124)	25	100
		Total Content	125	500

Assay / Format	CAST® ELISA	Flow CAST®
Conc. in stimulation	100 µg/mL	115 µg/mL
Cut-off	≥160 pg/mL	≥5% CD63, SI≥2

Order Code	Name	Components	Content per vial (µg)	Conc. after reconst. (µg/mL)
BAG2-C102	Food Colorant Mix II	Erythrosine (CE127)	1.25	5
		Patent Blue V (CE131)	6.25	25
		Indigo Carmine (CE132)	6.25	25
		Brilliant Black (CE151)	6.25	25
		Total Content	20	80

Assay / Format	CAST® ELISA	Flow CAST®
Conc. in stimulation	16 µg/mL	18 µg/mL
Cut-off	≥100 pg/mL	≥5% CD63, SI≥2

Order code

Name

C16H9N4Na3O9S2

BAG2-C103

Tartrazine

MW 534.4

Name E102; Hydrazine yellow; Acid yellow 23; FD&C yellow No. 5; C.I. Food yellow 4

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

625 µg

625 µg

Conc. after reconst.

2.5 mg/mL

2.5 mg/mL

Conc. in stimulation

500 µg/mL

570 µg/mL

Cut-off

≥120 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C7H5NaO2

BAG2-C111

Sodium Benzoate

MW 144.1

Name E211

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

625 µg

625 µg

Conc. after reconst.

2.5 mg/mL

2.5 mg/mL

Conc. in stimulation

500 µg/mL

570 µg/mL

Cut-off

≥90 pg/mL

≥5% CD63; SI*≥2

Order code

Name

NaNO2

BAG2-C112

Sodium Nitrite

MW 69.0

Name E250; Na-Nitrite; Nitrous acid sodium salt; Erinirit

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

25 µg

25 µg

Conc. after reconst.

100 µg/mL

100 µg/mL

Conc. in stimulation

20 µg/mL

22.7 µg/mL

Cut-off

≥60 pg/mL

≥5% CD63; SI*≥2

Order code

Name

K2S2O5

BAG2-C113

Potassium Metabisulfite

MW 222.3

Name E224; Potassium disulfite; Potassium pyrosulfite

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

12.5 µg

12.5 µg

Conc. after reconst.

50 µg/mL

50 µg/mL

Conc. in stimulation

10 µg/mL

11.5 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C7H5NaO3

BAG2-C114

Sodium Salicylate

MW 160.1

Name Alysine; Ardall; Enterosalicyl; Entersalil; Magsalyl; Parbocyl-Rev

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

250 µg

250 µg

Conc. after reconst.

1 mg/mL

1 mg/mL

Conc. in stimulation

200 µg/mL

227 µg/mL

Cut-off

≥120 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C18H8NNa3O11S3

BAG2-CE104

Quinoline Yellow

MW 579.4

Name E104; Acid yellow 3; D&C yellow No.10; Food yellow 13

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

125 µg

125 µg

Conc. after reconst.

500 µg/mL

500 µg/mL

Conc. in stimulation

100 µg/mL

115 µg/mL

Cut-off

≥300 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C16H10N2Na2O7S2

BAG2-CE110

Sunset Yellow FCF

MW 452.4

Name E110; FD&C yellow No.6; C.I. Food yellow 3

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

125 µg

125 µg

Conc. after reconst.

500 µg/mL

500 µg/mL

Conc. in stimulation

100 µg/mL

115 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C20H12N2Na2O7S2

BAG2-CE122

Chromotrope FB

MW 502.4

Name E122; C.I. Food red 176

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

250 µg

250 µg

Conc. after reconst.

1 mg/mL

1 mg/mL

Conc. in stimulation

200 µg/mL

227 µg/mL

Cut-off

≥80 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C20H11N2Na3O10S3

BAG2-CE123

Amaranth

MW 604.5

Name E123; C.I. Food red 9; Acid red 27; FD&C red No. 2

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

25 µg

25 µg

Conc. after reconst.

100 µg/mL

100 µg/mL

Conc. in stimulation

20 µg/mL

22.7 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C20H11N2Na3O10S3

BAG2-CE124

New Coccine

MW 604.5

Name E124; C.I. Food red 7; Acid red 18; Ponceau 4R

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

625 µg

625 µg

Conc. after reconst.

2.5 mg/mL

2.5 mg/mL

Conc. in stimulation

500 µg/mL

570 µg/mL

Cut-off

≥60 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C20H64N2Na2O5

BAG2-CE127

Erythrosine

MW 879.9

Name E127; Erythrosine BS; Erythrosine B; FD&C Red No. 3; C.I. Food Red 14; Acid Red 51

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

1.25 µg

1.25 µg

Conc. after reconst.

5 µg/mL

5 µg/mL

Conc. in stimulation

1 µg/mL

1.15 µg/mL

Cut-off

≥60 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C27H31N2NaO7S2

BAG2-CE131

Patent Blue V

MW 582.7

Name E131; C.I. Food blue 5; Acid Blue 3 Sodium salt; Acid Blue V Sodium salt

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

62.5 µg

62.5 µg

Conc. after reconst.

250 µg/mL

250 µg/mL

Conc. in stimulation

50 µg/mL

57 µg/mL

Cut-off

≥70 pg/mL

≥5% CD63; SI*≥2

[Order code](#)

[Name](#)

$C_{16}H_8N_2Na_2O_8S_2$

BAG2-CE132

Indigo Carmine

MW 466.4

Name E132; Sodium indigotin disulfonate; soluble indigo blue; Indigotine; Acid Blue 74; C.I. Food Blue 1;FD&C Blue No. 2

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	62.5 µg	62.5 µg
Conc. after reconst.	250 µg/mL	250 µg/mL
Conc. in stimulation	50 µg/mL	57 µg/mL
Cut-off	≥50 pg/mL	≥5% CD63; SI*≥2

[Order code](#)

[Name](#)

$C_{28}H_{17}N_5Na_4O_{14}S_2$

BAG2-CE151

Brilliant Black BN

MW 867.7

Name E151; C.I. Food black 1; Black PN

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	62.5 µg	62.5 µg
Conc. after reconst.	250 µg/mL	250 µg/mL
Conc. in stimulation	50 µg/mL	57 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

[Order code](#)

[Name](#)

$C_6H_7KO_2$

BAG2-CE202

Sorbic Acid

MW 150.2

Potassium salt

Name E200, E202

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	500 µg	500 µg
Conc. after reconst.	2 mg/mL	2 mg/mL
Conc. in stimulation	400 µg/mL	455 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

Order code	Name
BAG2-CE466	Carboxymethylcellulose

Name Cellulose glycolate; Cethylose; CMC; Carmethose; Cel-O-Brandt; Glykocellon; Carbose D; Xylo-Mu-cine; Tylose MGA; Cellolax; Polycell

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	5 µg	5 µg
Conc. after reconst.	20 µg/mL	20 µg/mL
Conc. in stimulation	4 µg/mL	4.5 µg/mL
Cut-off	≥150 pg/mL	≥5% CD63; SI*≥2

Order code	Name
BAG2-CE621	Glutamate

C₅H₈NNaO₄

MW 187.1

Name E621; Chinese seasoning; MSG; RL-50; Accent; Ajinomoto; Glutacyl; Glutavene; Vetsin

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	2.5 mg	2.5 mg
Conc. after reconst.	10 mg/mL	10 mg/mL
Conc. in stimulation	2 mg/mL	2.27 mg/mL
Cut-off	≥70 pg/mL	≥5% CD63; SI*≥2

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TERMS & ABBREVIATIONS

%CD63	Results in Flow CAST® are expressed in %CD63 positive basophilic cells
SI	Stimulation Index. SI is used in Flow CAST® and is defined as the ratio of allergen specific basophil activation and background activation. (SI = %CD63+ for allergen stimulation / %CD63 for patient background)
MW	Molecular weight expressed in g/mol
IFU	Instruction for Use
sLT	Sulfidoleukotrienes. Results in CAST® ELISA are expressed in pg/mL sLT
Additional Dilution	Some individuals react either at high or at low allergen concentrations in the CAST® assay. Prepare dilution of allergen stock solution with Stimulation Buffer. E.g. An additional dilution of 1:5 is prepared by adding 40 µL of allergen solution to 160 µL Stimulation Buffer.

CHANGELOG

Date	Version	Change
2022-05-12	A1	Complete revision of instruction for use according to IVDR 2017/746 requirements

INCIDENT REPORTING IN EU MEMBER STATES

If any serious incident in relation to this device has occurred, please report without delay to the manufacturer and competent authority of your Member State.

SHIPPING DAMAGE

Please notify your distributor, if this product was received damaged.

SYMBOLS

BÜHLMANN uses symbols and signs listed and described in ISO 15223-1.

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