



CAST[®] Allergens

for
CAST[®] ELISA
Flow CAST[®]

Drug Allergens

For *In Vitro* Diagnostic Use.

BAG2-XX
BAG2-XXX
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) 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

 $C_{23}H_{32}N_2O_5$ **BAG2-CRAM** **Ramipril**

MW 416.51

Trade Names Delix; Hypren; Lannapril; Ramicard; Ramiclair; Ramilich; Triatec; Tritace; Vesdil

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

11.4 µg/mL

Cut-off

≥40 pg/mL

≥6% CD63; SI*≥2

Order code	Name	$C_{15}H_{22}N_2O_6$
BAG2-C51	Lys-Aspirin	MW 326.4

Trade Names Acetophen; Acetosal; Acylpyrin; Alcacyl; Asatard; Aspidol; Aspro; Caprin; Colfarit; Contrheuma; Delgesic; Duramax; Ecotrin; Endydol; Entrophen; Rhodine; Salacetin; Salcetogen; Saletin; Solpyron; Venopirin

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	625 µg	625 µg
Conc. after reconst.	2.50 mg/mL	2.50 mg/mL
Conc. in stimulation	500 µg/mL	570 µg/mL
Cut-off	≥90 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{14}H_{10}Cl_2NNaO_2$
BAG2-C52	Diclofenac	MW 318.1

Trade Names Allvoran; Benfofen; Cataflam; Diclo-Phlogont; Diclo-Puren; Dicloream; Dolobasan; Duravolten; Ecofenac; Effekton; Novapirina; Primofenac; Prophenatin; Rhumalgen; Valetan; Voldal; Voltaren; Voltarol; Xenid

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	6.25 µg	6.25 µg
Conc. after reconst.	25 µg/mL	25 µg/mL
Conc. in stimulation	5 µg/mL	5.7 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{13}H_{18}O_2$
BAG2-C53	Ibuprofen	MW 206.3

Trade Names Alges; Algifor; Brufen; Dismenol; Dentigoa; Dolgigid; Dolgit; Dolocyl; Epobron; Femadon; Grefen; Ifufen; Ibumetin; Ibutad; Ibutop; Nurofen; Optifen; Saridon; Sonotryl; Spedifen; Tabalon; Urem

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	≥50 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{19}H_{16}ClNO_4$
BAG2-C54	Indomethacin	MW 357.8

Trade Names Elmetacin; Indocin; Indometacin; Indophtal; Indo-TOP; Indocolir; Indomet; Inflam; Protaxon; Reusin; Rheublamin; Sigadoc; Sjoebo

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	2.5 µg	2.5 µg
Conc. after reconst.	10 µg/mL	10 µg/mL
Conc. in stimulation	2.0 µg/mL	2.27 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_8H_9NO_2$
BAG2-C55	Acetaminophen	MW 151.2

Trade Names Acetalgin; Azur; Ben-u-ron; Boxacin; Boxonal; Buscopan; Captin; Cervopyrin; Coffalon; Dafalgan; Dolereduct; Dolevar; Enelfa; Epsimol; Exedrin; Febrifant; Fibrex; Gelonida; Panadol; Perfalgan; Treupel; Zolben

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	2.5 µg	2.5 µg
Conc. after reconst.	10 µg/mL	10 µg/mL
Conc. in stimulation	2.0 µg/mL	2.27 µg/mL
Cut-off	≥60 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{15}H_{15}NO_2$
BAG2-C56	Mefenamic Acid	MW 241.3

Trade Names Lysalgo; Mefenacid; Mefenamin; Mephadolor; Ponstan; Spiralgin

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	6.25 µg	6.25 µg
Conc. after reconst.	25 µg/mL	25 µg/mL
Conc. in stimulation	5 µg/mL	5.7 µg/mL
Cut-off	≥60 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{19}H_{20}N_2O_2$
BAG2-C57	Phenylbutazone	MW 308.4
		Sodium salt

Trade Names Ambene; Artrizin; Azolid; Bizolin; Butacote; Butadion; Butapirazol; Butadiona; Butatron; Butoz; Butazoli- din; Buzon; Ecobutazone; Equipalazone; Exrheudon N; Fenibutol; Intrabutazone; Intrazone; Mepha-Butazon; Phenyzene

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	≥80 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{14}H_{18}N_2O$
BAG2-C58	Propyphenazone	MW 230.3

Trade Names Amtalidin; Budiro; Causyth; Cistalgan; Eufibron; Isoprochin; Optalidon Saridon Spasmo

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	$C_{13}H_{16}N_3NaO_4S \cdot H_2O$
BAG2-C59	Dipyrone / Metamizole	MW 351.4
		Sodium salt

Trade Names Analgina; Analgin; Berlosin; Inalgon; Metalgin; Minalgin; Nopain; Novalgin; Novalgina; Novaminsulfon; Nolotil; Sulfonovin; Vetalgin

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	≥50 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{14}H_{13}NaO_3$
BAG2-CNAP	Naproxen	MW 252.2
		Sodium salt

Trade Names Alacetan; Aleve; Anaprox; Apranax; Dolormin; Dysmenalgit; Mobilat; Momendol; Naprobene; Proxen

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:10	1:10
Content per vial	100 µg	100 µg
Conc. after reconst.	400 µg/mL	400 µg/mL
Conc. in stimulation	80 µg/mL	91 µg/mL
Cut-off	≥200 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_7H_5NaO_3$
BAG2-C114	Salicylic Acid	MW 160.1
		Sodium salt

Trade Names Metabolite of Aspirin. Alysine; Idocyl novum; Enterosalicyl; Magsalyl; Parbocyl-Rev; Sodium 2-hydroxy- benzoate; 2-Hydroxybenzoic acid

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	$C_{16}H_{25}NO_2$
BAG2-CTRA	Tramadol	MW 263.4
		Hydrochloride

Trade Names ConZip; Rybix ODT; Ryzolt; Ultram; Ultram ER

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	440 µg	440 µg
Conc. after reconst.	1.76 mg/mL	1.76 mg/mL
Conc. in stimulation	353 µg/mL	400 µg/mL
Cut-off	≥50 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{16}H_{17}N_2NaO_4S$
BAG2-C1	Penicillin G	MW 356.4
		Sodium salt

Trade Names Benzylpenicillin Sodium; Sodium Penicillin II; Sodium Benzylpenicillin; Pencillinic Acid Sodium Salt; American Penicillin; Nalpen G; Novocillin; Penilaryn; Pen-A-Brasive; Veticillin

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	1 mg	1 mg
Conc. after reconst.	4 mg/mL	4 mg/mL
Conc. in stimulation	800 µg/mL	910 µg/mL
Cut-off	≥50 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{28}H_{46}N_6O_8S$
BAG2-C11	Benzylpenicilloyl-Polylysine (PPL)	MW 626.8

Trade Names Penicilloypolylysine; PPL; Cilligen; Pre-Pen; Testarpen. The BPO (Benzylpenicilloyl)-group is the major determinant of Typ I allergies against Benzylpenicillin and related antibiotics

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	≥50 pg/mL	≥5% CD63; SI*≥2

Order code	Name
BAG2-C12	Minor Determinant Mix (MDM)

Trade Names MDM; Mixture of Sodium-Benzylpenicillin and di-Sodium-Benzylpenicilloat

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	225 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

Order code

Name

$C_{16}H_{18}N_2O_5SK$

BAG2-C2

Penicillin V

MW 388.5

Potassium salt

Trade Names

Acipen-V; Apopen; Distaquaine V; Eskacillin V; Fenacillin; Fenospin; Meropenin; Orocillin; Oratren; Ospen; Pen-Oral; Pen-Vee; Phenopenicillin; P-Mega-Tablinen; Stabicillin; V-Cil; V-Cillin; Vebecillin

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

1 mg

1 mg

Conc. after reconst.

4 mg/mL

4 mg/mL

Conc. in stimulation

800 µg/mL

910 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{16}H_{19}N_3O_8SZn$

BAG2-C3

Cephalosporin C

MW 478.8

Zinc salt

Trade Names

None. Cephalosporin C is the basic structure of many antibiotics such as Cefazolin and Cefamandole.

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

22.5 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{19}H_{17}N_6O_5S_2$

BAG2-C31

Cefamandole

MW 462.5

Formate sodium salt

Trade Names

Bergacef; Cedol; Cefam; Cefiran; Cemando; Cemandil; Fado; Kefadol; Kefandol; Lampomandol; Mandokef; Mandol; Mandolsan; Neocefal; Pavecef

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

≥80 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{14}H_{14}N_6O_4S_3$

BAG2-C32

Cefazoline

MW 454.5

Sodium salt

Trade Names

Acef; Ancef; Atirin; Biazolina; Bor-Cefazol; Cefacidal; Cefamedin; Cefamezin; Cefazil; Cefazina; Elzogram; Firmacef; Gramaxin; Kefzol; Lampocef; Liviclina; Totacef; Zolicef

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

≥80 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{16}H_{16}N_4O_8S$

BAG2-C33

Cefuroxime

MW 424.4

Sodium salt

Trade Names

Anaptivan; Biociclin; Biofurex; Bioxima; Cefamar; Cefoprom; Ceftin; Cefumax; Cefurax; Cefurex; Cefurin; Cepacine; Curocef; Curoxim; Duxima; Elobact; Kefurox; Novocef; Spectazole; Zinacef; Zinat; Zinnat

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

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{15}H_{14}ClN_3O_4S$

BAG2-C34

Cefaclor

MW 367.8

Trade Names

Alenfral; Alfacet; Alfatil; Ceclor; Distaclor; Kefral; Keflor; Panacef; Panoral; Raniclror

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:10

1:10

Content per vial

0.75 mg

0.75 mg

Conc. after reconst.

3 mg/mL

3 mg/mL

Conc. in stimulation

600 µg/mL

682 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code	Name	$C_{18}H_{16}N_8Na_2O_7S_3$
BAG2-C35	Ceftriaxone	MW 598.6
		Sodium salt

Trade Names Amplospec; Antibacin; Cefotrix; Rocefin; Rocephin; Tercefon

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:10	1:10
Content per vial	1 mg	1 mg
Conc. after reconst.	4 mg/mL	4 mg/mL
Conc. in stimulation	720 µg/mL	818 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{18}H_{20}FN_3O_4$
BAG2-C36	Levofloxacin	MW 361.4

Trade Names Cravit; Elequine; Floxel; Iquix. Leroxacin; Lesacin; Levaquin; Levokacin; Levox; Levoxacin; Mosardal; Nofaxin; Oftaquix; Quixin; Reskuin; Tavanic; Volequin

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:10	1:10
Content per vial	200 µg	200 µg
Conc. after reconst.	800 µg/mL	800 µg/mL
Conc. in stimulation	160 µg/mL	182 µg/mL
Cut-off	≥40 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{10}H_{11}N_3O_3S$
BAG2-C61	Sulfamethoxazole	MW 253.3

Trade Names Gantanol; Sinomin. Mixture with Trimethoprim: Bactrim; Berlocid; Cotrim; Cotrimox; Cotrimstada; Cotrimoxazol; Drylin; Escoprim; Eusaprim; Kepinol; Lagatrim; Nopil; Sigaprim; TMS forte

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	22.5 µg/mL
Cut-off	≥50 pg/mL	≥5% CD63; SI*≥2

Order code

Name

$C_{14}H_{18}N_4O_3$

BAG2-C62

Trimethoprim

MW 290.3

Trade Names Infectotrimet; Motrim; Triprim. Mixture with Sulfamethoxazole: Bactrim; Berlocid; Cotrim; Cotrimox; Cotrimstada; Cotrimoxazol; Drylin; Escoprim; Eusaprim; Kepinol; Lagatrim; Nopil; Sigaprim; TMS forte

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

$C_{22}H_{24}N_2O_8$

BAG2-C75

Tetracycline

MW 444.4

Trade Names Actisite-Dental; Fluorex Plus; Imex; Mysteclin; Sumycin; Teflin

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

≥90 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{22}H_{24}N_2O_8$

BAG2-C76

Doxycycline

MW 444.4

Hydrochloride

Trade Names Aknefug Doxy; Antodox; Atridox; Doxakne; Dotur; Doxyclean; Doxyderma; DoxyHexal; Doxylag; Doxymono; Doxysol; Oraycea; Periostat; Rudocyclin; Supracyclin; Tasmacyclin; Vibramycin; Vibrave- nös; Zadorin

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

15.6 µg

15.6 µg

Conc. after reconst.

62.5 µg/mL

62.5 µg/mL

Conc. in stimulation

12.5 µg/mL

14.2 µg/mL

Cut-off

≥65 pg/mL

≥7% CD63; SI*≥2

Order code

Name

C17H18FN3O3

BAG2-C81

Ciprofloxacin

MW 331.4

Trade Names

Baycip; Ciflox; Ciloxan; Ciprinol; Cipro; Ciprobay; Ciproxan; Ciproxin; Flociprin; Septicide; Velmonit

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

22.5 µg/mL

Cut-off

≥90 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C21H24FN3O4

BAG2-C82

Moxifloxacin

MW 401.4

Hydrochloride

Trade Names

Actira; Avelon; Avalox; Avelox; Octegra; Vigamox

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

31.25 µg

31.25 µg

Conc. after reconst.

125 µg/mL

125 µg/mL

Conc. in stimulation

25 µg/mL

28.4 µg/mL

Cut-off

≥40 pg/mL

≥7% CD63; SI*≥2

Order code

Name

C16H19N3O4S

BAG2-C203

Ampicillin

MW 388.5

Trade Names

Albipen; Amblosin; Ampicin; Ampilar; Ampitab; Amplital; Austrapen; Britacil; Cetampin; Doktacillin; Omnipen; Penbristol; Penbritin; Pentrex; Pentrexyl; Princillin; Principen; Tokiocillin; Totacillin; Ukapen; Vidopen

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

Order code

Name

C16H19N3O5S

BAG2-C204

Amoxicillin

MW 365.4

Trade Names Alfamox; Amocilline; Amoxi; Amoxidal; Ardine; Betamox; Clamoxyl; Dura X; Flemoxin; Hiconcil; Ibiamox; Moxal; Neamoxyl; Ospamox; Pasetocin; Penimox; Raylina; Sawacillin; Silamox; Trimox; Ultimox; Zamocillin

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

≥100 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C38H69NO13

BAG2-CCLA

Clarithromycin

MW 748.0

Trade Names Biaxin; Clathromycin; Cyllind; Klacid; Klaricid; Macladin; Mavid; Naxy; Veclam; Zeclar

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

≥70 pg/mL

≥5% CD63; SI*≥2

Order code

Name

BAG2-CCLAX

Clavulanic Acid Amox

Trade Names Combined with amoxicillin (co-amoxiclav, trade names: Augmentin, Synulox, and others)

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

0.750 mg

0.750 mg

Conc. after reconst.

3.0 mg/mL

3.0 mg/mL

Conc. in stimulation

600 µg/mL

682 µg/mL

Cut-off

≥50 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{18}H_{33}ClN_2O_5S$

BAG2-CCLIN

Clindamycin

MW 425.0

Hydrochloride

Trade Names

Basocin; Clindac; Clin-Sanorania; Dalacin; Dentomycin; Jutaclin; Lanacine; Sobelin; Turimycin; Zindaclin

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

≥6% CD63; SI*≥2

Order code

Name

$C_{37}H_{67}NO_{13}$

BAG2-CERY

Erythromycin

MW 733.9

Trade Names

Aknederam Ery; Aknefug-EL; Aknemycin; Aknilox; Erios; Eryaknen; Eryfluid; Erythrocin; Inderm; Infectomycin; Meromycin; Paediathrocin; Sanasepton; Stiemycine

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

114 µg/mL

Cut-off

≥40 pg/mL

≥6% CD63; SI*≥2

Order code

Name

$C_{43}H_{58}N_4O_{12}$

BAG2-CRIF

Rifampicin

MW 823.0

Trade Names

Rifampicin; Rifaldazine; Rifamycin AMP; R/AMP; Abrifam; Eremfat; Rifa; Rifadine; Rifaldine Rifaldin; Rifaprodin; Rifoldin; Rimactane

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

≥100 pg/mL

≥5% CD63; SI*≥2

Order code

Name

 $C_{22}H_{30}Cl_2N_{10}X_2(C_6H_{12}O_7)$ **BAG2-CCHX****Chlorhexidine**

MW 897.8

Digluconate

Trade Names

Atoseptal; Chlorhexamed; Corsodyl; Dentohexin; Dosisseptine; Hexamedal; Hibidil; Hibiscrub; Lifo-Scrub; Periochip

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

1.14 µg/mL

Cut-off

≥100 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{18}H_{31}NO_4 \cdot \frac{1}{2}C_4H_4O_4$

BAG2-CBIS

Bisoprolol

MW 383.5

Hemifumarate

Trade Names Bilol; Bisacardiol; Bisocor; Conor; Jutabis; Rivacor

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	11.4 µg/mL
Cut-off	≥50 pg/mL	≥6% CD63; SI*≥2

Order code

Name

$C_{15}H_{25}NO_3$

BAG2-CMET

Metoprolol

MW 267.4

Tartrate

Trade Names Toprol-XL; Lopressor; Metoprolol Tartrate

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	495 µg	495 µg
Conc. after reconst.	1.98 mg/mL	1.98 mg/mL
Conc. in stimulation	396 µg/mL	450 µg/mL
Cut-off	≥70 pg/mL	≥6% CD63; SI*≥2

Order code

Name

$C_{20}H_{28}I_3N_3O_9$

BAG2-CIOBI

Iobitridol

MW 835.2

Trade Names Xenetix

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

Content per vial

1.25 mg

1.25 mg

Conc. after reconst.

5 mg/mL

5 mg/mL

Conc. in stimulation

1 mg/mL

1.1 mg/mL

Cut-off

≥50 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{35}H_{44}I_6N_6O_{15}$

BAG2-CIODI

Iodixanol

MW 1550.2

Trade Names Visipaque

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

Content per vial

1.25 mg

1.25 mg

Conc. after reconst.

5 mg/mL

5 mg/mL

Conc. in stimulation

1 mg/mL

1.1 mg/mL

Cut-off

≥200 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{19}H_{26}I_3N_3O_9$

BAG2-CIOHE

Iohexol

MW 821.1

Trade Names Omnipaque; Accupaque

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

Content per vial

1.25 mg

1.25 mg

Conc. after reconst.

5 mg/mL

5 mg/mL

Conc. in stimulation

1 mg/mL

1.1 mg/mL

Cut-off

≥50 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C₁₇H₂₂I₃N₃O₈

BAG2-CIOME

lomeprol

MW 777.1

Trade Names lomeron

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

Content per vial

1.25 mg

1.25 mg

Conc. after reconst.

5 mg/mL

5 mg/mL

Conc. in stimulation

1 mg/mL

1.1 mg/mL

Cut-off

≥50 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C₁₇H₂₂I₃N₃O₈

BAG2-CIOPA

lopamidol

MW 777.1

Trade Names lopamiro; Isovue; lopamiron; Niopam; Scanlux

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

Content per vial

1.25 mg

1.25 mg

Conc. after reconst.

5 mg/mL

5 mg/mL

Conc. in stimulation

1 mg/mL

1.1 mg/mL

Cut-off

≥160 pg/mL

≥5% CD63; SI*≥2

Order code

Name

C₁₈H₂₄I₃N₃O₈

BAG2-CIOPR

lopromide

MW 791.1

Trade Names Ultravist

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

Content per vial

1.25 mg

1.25 mg

Conc. after reconst.

5 mg/mL

5 mg/mL

Conc. in stimulation

1 mg/mL

1.1 mg/mL

Cut-off

≥200 pg/mL

≥5% CD63; SI*≥2

Order code	Name	$C_{24}H_{21}I_6N_5O_8$
BAG2-CIOXA	loxaglate	MW 1268.9

Trade Names Hexabrix; loxaglic acid

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution		
Content per vial	1.25 mg	1.25 mg
Conc. after reconst.	5 mg/mL	5 mg/mL
Conc. in stimulation	1 mg/mL	1.1 mg/mL
Cut-off	≥50 pg/mL	≥5% CD63; SI*≥2

Order code

Name

$C_{13}H_{20}N_2O_3S \cdot HCl$

BAG2-CART

Articaine

MW 320.4

Hydrochloride

Trade Names Astracaine; Rudocain; Septanest; Septocaine; Ubistesin; Ultracaine

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

100 µg

100 µg

Conc. after reconst.

400 µg/mL

400 µg/mL

Conc. in stimulation

80 µg/mL

91 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{18}H_{28}N_2O \cdot HCl$

BAG2-CBUP

Bupivacaine

MW 324.9

Hydrochloride

Trade Names Carbostesin; Marcain; Marcaine; Sensorcaine; Vivacaine

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:10

1:10

Content per vial

100 µg

100 µg

Conc. after reconst.

400 µg/mL

400 µg/mL

Conc. in stimulation

80 µg/mL

91 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{15}H_{22}N_2O \cdot HCl$

BAG2-CMEP

Mepivacaine

MW 282.8

Hydrochloride

Trade Names Carbocaina; Isogaine; Meaverin; Mecain; Mepibil; Mepicaton; Mepident; Mepidont; Mepiforan; Mepihe- xal; Mepimynol; Mepivacaina; Mepivamol; Mepivastesin; Scandicain; Scandicaine; Tevacaine

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:10

1:10

Content per vial

100 µg

100 µg

Conc. after reconst.

400 µg/mL

400 µg/mL

Conc. in stimulation

80 µg/mL

91 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{14}H_{20}N_2O \cdot Na_2$

BAG2-CLID

Lidocaine

MW 278.3

Sodium salt

Trade Names

Cuivasil; Duncaine; Leostesin; Lidesthesin; Lidostesin; Lignavet; Odontalg; Rucaina; Sedagul; Xylocaine; Xylocard; Xylocitin; Xyloneural; Xylotox;

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

$C_{65}H_{82}N_2O_{18}S_2$

BAG2-CATR

Atracurium

MW 929.1

Besylate salt

Trade Names Acuron; Aratan; Atratan; Atrelax; Atrican; Tracrium; Trarium; Wellcome 33-A-74

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

1.2 µg/mL

Cut-off

≥50 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{53}H_{72}N_2O_{12} \times 2C_6H_5SO_3$

BAG2-CCAT

Cis-Atracurium

MW 929.1

Besylate

Trade Names Nimbex

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

100 µg

100 µg

Conc. after reconst.

400 µg/mL

400 µg/mL

Conc. in stimulation

80 µg/mL

91 µg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{58}H_{80}Cl_2N_2O_{14}$

BAG2-CMIV

Mivacurium

MW 1100.2

Trade Names Mivacron

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

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{35}H_{60}Br_2N_2O_4$

BAG2-CPAN

Pancuronium

MW 732.7

Trade Names Mioblock; Pancron; Pancur; Pancuronium; Parium; Pavulon

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

≥110 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{12}H_{18}O$

BAG2-CPRO

Propofol

MW 178.3

Trade Names Diprivan; Disoprivan; Fresofol; Pofol; Propofol; Rapinivet; Recofol

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

250 ng

250 ng

Conc. after reconst.

1 µg/mL

1 µg/mL

Conc. in stimulation

200 ng/mL

227 ng/mL

Cut-off

≥50 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{32}H_{53}N_2O_4$

BAG2-CROC

Rocuronium

MW 371.4

Trade Names Esmeron; Zemuron

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

≥70 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{14}H_{30}Cl_2N_2O_4$

BAG2-CSUX

Suxamethonium

MW 361

Chloride salt

Trade Names Lysthenon; Midarine; Pantolax; Succinolin

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

2.50 mg

2.50 mg

Conc. after reconst.

10 mg/mL

10 mg/mL

Conc. in stimulation

2 mg/mL

2.27 mg/mL

Cut-off

≥40 pg/mL

≥5% CD63; SI*≥2

Order code

Name

$C_{34}H_{57}BrN_2O_4$

BAG2-CVEC

Vecuronium

MW 637.7

Bromid salt

Trade Names Musculax; Norcuron

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

BAG2-CNBX

**Neuromuscular
Blockers Mix**

Ingredients	Content per vial µg	Con. after reconst. µg/mL
Suxamethonium	795	3180
Recuronium	43	171
Vecuronium	96	383
Pancuronium	95	381
Atracurium	12	50
Mivacurium	10	41
Cisatracurium	20	82

Assay / Format

CAST® ELISA

Flow CAST®

Additional dilution

1:5

1:5

Content per vial

1.072 mg

1.072 mg

Conc. after reconst.

4.3 mg/mL

4.3 mg/mL

Conc. in stimulation

0.86 mg/mL

0.97 mg/mL

Cut-off

≥200 pg/mL

≥5% CD63; SI*≥2

PROTON PUMP INHIBITORS

Order code	Name	$C_{17}H_{19}N_3O_3S$
BAG2-COME	Omeprazole	MW 345.4

Trade Names Antra; Gastroloc; Losec; Losectil; Lozeprel; Mopral; Omepral; Omez; Prilosec; Ulcozol

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	10 µg	10 µg
Conc. after reconst.	40 µg/mL	40 µg/mL
Conc. in stimulation	8 µg/mL	9.1 µg/mL
Cut-off	≥140 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{34}H_{36}MgN_6O_6S_2$
BAG2-CESO	Esomeprazole	MW 713.1
		Magnesium hydrate

Trade Names Nexium; Nexiam; Nexium IV; Axagon; Esopral; Lucen

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	10 µg	10 µg
Conc. after reconst.	40 µg/mL	40 µg/mL
Conc. in stimulation	8 µg/mL	9.1 µg/mL
Cut-off	≥100 pg/mL	≥5% CD63; SI*≥2

Order code	Name	$C_{16}H_{14}F_2N_3O_4S \cdot Na$
BAG2-CPANT	Pantoprazole	MW 405.4
		Sodium salt

Trade Names Astropan; Controloc; Inipomp; Pantomed; Pantecta; Pantoloc; Pantozol; Pantec; Pantoprazole; Pantor; Protium; Protonix; Protonix IV; Somac; Tectac

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:5	1:5
Content per vial	50 µg	50 µg
Conc. after reconst.	200 µg/mL	200 µg/mL
Conc. in stimulation	40 µg/mL	45.5 µg/mL
Cut-off	≥110 pg/mL	≥5% CD63; SI*≥2

PROTON PUMP INHIBITORS

Order code

Name

$C_{16}H_{14}F_2N_3O_2S$

BAG2-CLAN

Lansoprazole

MW 396.4

Trade Names Agopton; Lanciprol; Lansobene; Lansoloc; Lansoprazol; Lansox; Lanton; Lanzo; Lanzopral; Lanzor; Lanzostad; Limpidex; Monolitum; Prevacid; Zoton; Zomel

Assay / Format

CAST[®] ELISA

Flow CAST[®]

Additional dilution

1:5

1:5

Content per vial

50 µg

50 µg

Conc. after reconst.

200 µg/mL

200 µg/mL

Conc. in stimulation

40 µg/mL

45.5 µg/mL

Cut-off

≥200 pg/mL

≥5% CD63; SI*≥2

Order code	Name	H(OCH ₂ CH ₂) _n OH
BAG2-CPEG	PEG-4000	MW 3500 - 4500

Trade Names Macrogol 4000; Polyethylenglycol MW 4000

Assay / Format	CAST® ELISA	Flow CAST®
Additional dilution	1:10	1:10
Content per vial	1 mg	1 mg
Conc. after reconst.	4 mg/mL	4 mg/mL
Conc. in stimulation	800 µg/mL	910 µg/mL
Cut-off	≥50 pg/mL	≥6% CD63; SI*≥2

Order code	Name	H(OCH ₂ CH ₂) _n OH
BAG2-CPEG2	PEG-2000	MW 1900 - 2200

Trade Names PEG-2000 (Polyethylenglycol MW 2000)

Assay / Format	Flow CAST®
Additional dilution	1:10
Content per vial	1 mg
Conc. after reconst.	4 mg/mL
Conc. in stimulation	910 µg/mL
Cut-off	≥5% CD63; SI*≥2

Order code	Name	C ₁₂₂ H ₂₄₂ O ₅₀
BAG2-CPEG3	DMG PEG-2000	MW 2509.20

Trade Names DMG PEG-2000 (1,2-Dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000)

Assay / Format	Flow CAST®
Additional dilution	1:10
Content per vial	2 µg
Conc. after reconst.	8 µg/mL
Conc. in stimulation	1.8 µg/mL
Cut-off	≥6.5% 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.

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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