

SUMMARY

shipped at RT; store at RT

For research use only

- available in high pharmaceutical quality
- free of carbohydrates
- high solubility in aqueous solution - up to 50% [w/v]
- stays soluble at 4 °C in aqueous solution
- usable pH-range 5 – 8.5
- average molecular weight of 3 kD

Applications

- western blot / dot blot
- ELISA
- surface coating
- gene-chip technology (replacement of acetylated BSA)

Advantages

- better blocking capacity than BSA
- virtually no background in western blotting
- increase of signal-to-noise ratio in ELISA
- solubility guaranteed up to 50% [w/v]
- low price

Perfect-Block was developed to improve the sensitivity of your standard protein detection systems and to increase signal-to-noise ratio values in various research applications like Western blot, ELISA, gene-chip technology or coating of surfaces.

Perfect-Block consists of highly purified gelatine proteins in superior and pharmaceutical research quality. Perfect-Block can be used as blocking reagent in your standard detection systems without changing your protocol.

Perfect-Block has been tested in several applications using different protein samples and various protocols. A standard Western blot protocol is provided below.

References

Fritsche, J., Reber, B.F.-X., Schindelholz, B., Bandtlow, C.E.; Mol. Cell. Neuroscience (MCN), Vol. 14(4), p. 398-418; 1999
used in Chen, M.S., Huber, A.B., van der Haar, M.E., Frank, M., Schnell, L., Spillmann, A.A., Christ, F. and Schwab, M.E.; Nature, Vol. 403, p.434-438; 2000

Productdata

Catalognumber: PB01 PB02
Quantity: 100 g 500 g

Description: Highly purified gelatine proteins in pharmaceutical quality in accordance with DAC 1986, 1st supplement 1989

Recommendation for declaration: Gelatine protein

Appearance: Light coloured powder

Odour: Very low odour level

Solubility: Excellently soluble in cold and warm water

Chemical and Physical Data:

Protein content of dry substances appr. 97%
Dry substances (105 °C, 16 h) 91.5 – 96.0%
Ash (550 °C) < 0.9%
pH (20%, room temperature) 5.0 – 6.4
Viscosity (20%, 25°C) 3.2 – 4.7 mPa s

Test Method

Kjeldahl (Nx5.55)
Eur. Ph., 1986
Eur. Ph., 1986
Potentiometer

Heavy metals < 40 ppm Eur. Ph., 1986
Bulk density 250 – 400 g/l
Average molecular weight appr. 3,000 D GPC with collagen weight markers

Microbiological Data

Aerobic bacterial count < 500/g Eur. Ph., 1986
Enterobacteriaceae nil/g Eur. Ph., 1986
Escherichia coli nil/g Eur. Ph., 1986
Clostridia nil/g AFNOR NF V 59-106

Shelf Life:

Under dry and odourless conditions PB01 can be stored for at least 2 years after delivery date without loss of quality.

This information is based on our present state of knowledge and is intended to provide general information on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale, and the quality assurance system of the manufacturer in accordance with DIN ISO 9001 (EN 29001).

Order Information, Shipping and Storage

Order#	Product	Quantity
PB01	Perfect-Block™	100 g
PB02	Perfect-Block™	500 g
shipped at RT; store at RT		

Contact and Support

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MoBiTec in your area: Find your local distributor at www.mobitec.com