

## Recombinant HBsAg with high antigenic activity (HBsAg-XT)

Hepatitis B virus surface antigen (HBsAg) is composed of L-, M- and S-antigen. Among them S-antigen activity is known to be the major antigen of human derived HBsAg. This product, HBsAg-XT, is specifically designed to exhibit high S antigen activity and produced from yeast. Using ELISA analysis to detect S-antigen activity, the product showed almost equal antigen activity to that of partially purified HBsAg derived from HVB patients.

The antigen resembles in structure with that of HBsAg derived from HBV patients, but is free from potential HBV infections, and thus can be used not only as a S-antigen but also as mimic HBsAg.

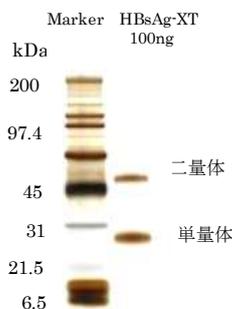
### General information

Source:	Yeast ( <i>Saccharomyces cerevisiae</i> )
Appearance:	Lyophilized white powder
Activity:	1ng/mL of the product as protein concentration corresponds to 0.5 to 1.0 IU/mL of WHO HBsAg standards.
Structure:	Nano size particles having antigen protein floating in lipid bilayer. The mean particle size is 50 to 60nm as determined dynamic light scattering methods (20 nm as determined by electron microscopy).
Dissolution:	For 100 µg vial, added 500µL of water to the vial that makes a antigen solution at 200 µg/mL in PBS (137mM NaCl, 8.1mM Na <sub>2</sub> HPO <sub>4</sub> · 12H <sub>2</sub> O, 2.68mM KCl, 1.47mM KH <sub>2</sub> PO <sub>4</sub> , pH 7.2 - 7.4) containing 1% sucrose.)
Purity:	over 95 %
Storage:	-20°C (stable for over 24 months)

### Product codes

product#	product name
BCL-AGX-02	HBsAg-XT, recombinant

### SDS-PAGE:



**Note:** BNC-XT adsorb plastic surface. It is recommended to use low-protein binding tubes for dilution.

**About Product #:** BCL-AGX-01 is no longer available. The product coded BCL-AGX-02 changed the content to 100 µg and lowered price. BCL-AGX-03 is produced upon request. For the detail visit our website.

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