



Recombinant HBsAg with high antigenic activity (HBsAg-XT)

Product#: BCL-AGX-001, BCL-AGX-02, BCL-AGX-03

BACKGROUND

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.

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 nIU/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).
Content:	30 µg(BCL-AGX-01), 360 µg (BCL-AGX-02), or 1 mg(BCL-AGX03) (dissolving instruction: For 30 µg vial, added 100µL of water to the vial that makes a antigen solution at 300 µg/mL in PBS (137mM NaCl, 8.1mM Na ₂ HPO ₄ · 12H ₂ O, 2.68mM KCl, 1.47mM KH ₂ PO ₄ , pH 7.2 - 7.4) containing 1% sucrose. For 360 µg vial, added 500µL of water to the vial that makes a antigen solution at 720 µg/mL in PBS (137mM NaCl, 8.1mM Na ₂ HPO ₄ · 12H ₂ O, 2.68mM KCl, 1.47mM KH ₂ PO ₄ , pH 7.2 - 7.4) containing 1% sucrose.)
Protein purity:	over 95 % (see SDS-PAGE data)
Storage:	-20°C (stable for over 24 months)

RELATED PRODUCT

BCL-AG-001 HBsAg L-protein

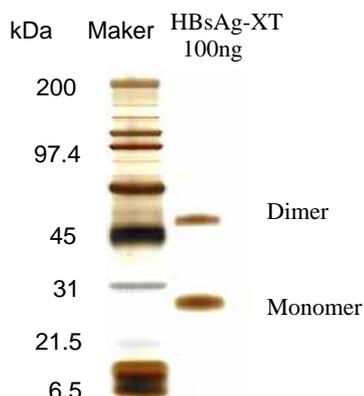


Fig. SDS-PAGE with silver staining