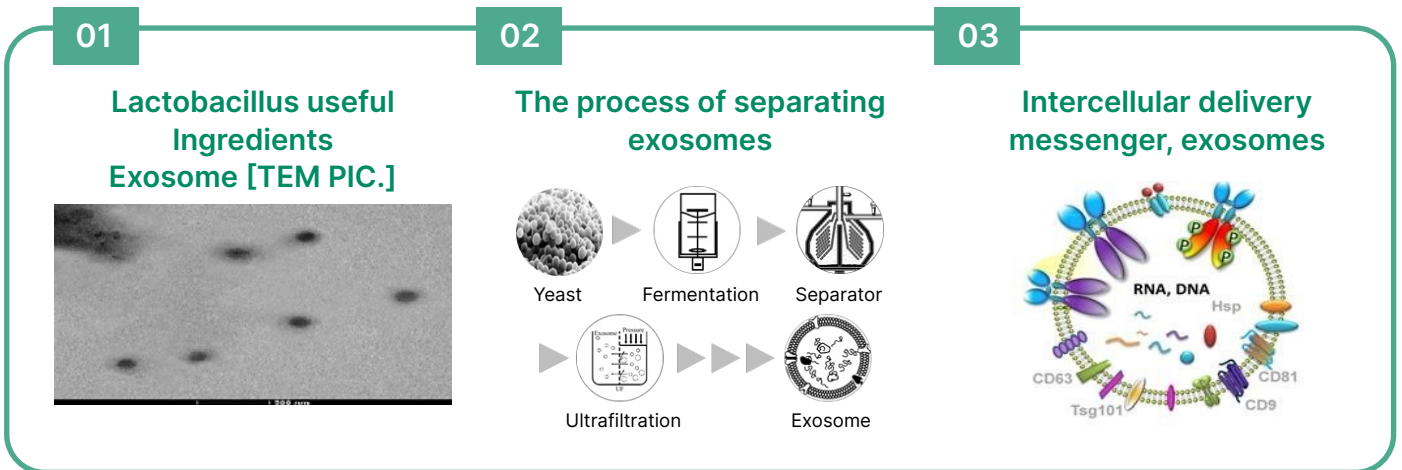


BIORAN Exosome L.P

(INCI : Lactobacillus Extracellular Vesicles)

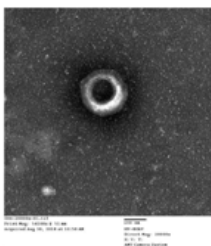
Introduction

Exosome is used in intercellular signal transmission and is a 20-200 nm-sized biological vesicle, a type of intracellular vesicle. BIORAN Exosome L.P is a product that cultivates **Lactobacillus paracasei Ink-01 strain separated from ripe kimchi** with INKOS Co., Ltd.'s own technology and delivers exosomes deep into the skin containing a "message" that benefits the skin of lactic acid bacteria.

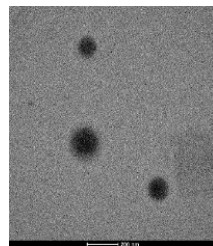


Efficacy test

1. BIORAN Exosome L.P's Exosome [TEM PIC.]



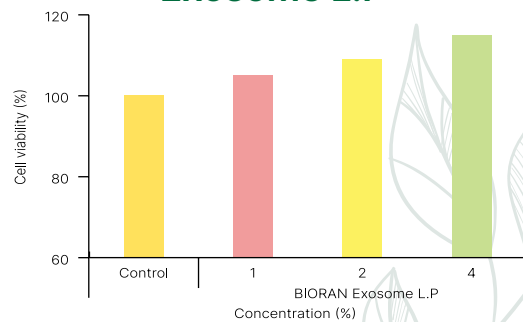
Origin of bean Exosome From Other company



Origin of Lactobacillus From Inkos

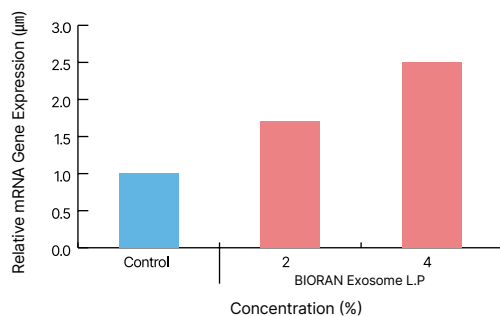
INKOS's Origin of Lactobacillus

2. Cell Regeneration of BIORAN Exosome L.P



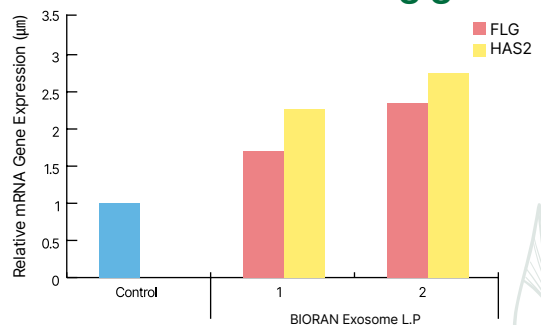
Concentration-dependent cell proliferation activity
→ Strengthen skin barriers and wrinkle improvement effect

3. Expression of the skin barrier gene of BIORAN Exosome L.P



Increased expression of skin barrier-related gene Loricrin (LOR) depending on the concentration
→ Skin barrier strengthening effect

4. Expression of BIORAN Exosome L.P's skin moisturizing gene



Promote the expression of moisturizing-related genes (FLG, HAS2) depending on the concentration
→ Effect of increasing skin moisturization