Date: 2025/8/19
Version 4

SAFETY DATA SHEET

1, **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**	
Product Name	AiREV
Code	BN01
General Name	Extracellular vesicles (EVs) concentrate derived from fermented horse milk
CAS No.	N.A
EC-No.	N.A
Details of the supplier of the SDS	Bold Biotechnology Co., Ltd./Sendai Manufacturing Center 82-16,Imozawa Gongenmoriyama, Aoba-ku Sendai, 989-3212, JAPAN Tel：+81-22-343-5116 FAX: +81-22-343-1195 Website：https://b-biotech.jp/
Emergency telephone number	+81-22-343-5116
Relevant identified uses of the substance or mixture and uses advised against	Research reagents, cosmetic additives, etc.
2, Hazards Identification	
GHS Classification of the substance or Mixture	Not a hazardous substance or Mixture according to the Globally Harmonized System (GHS).
Label elements	The product does not need to be labeled in accordance with EC directives or respective national lows.
Other hazards	N.A
3, Composition/information on Ingredients	
Substances	Mixture, liquid
This product is made by extracting the extracellular vesicle fraction from fermented horse milk and contains the following ingredients. ・Extracellular vesicles from fermented horse milk ・Fermented horse milk component ・5% trehalose	
4, First aid measures	
General advice	Consult a physician. Show this SDS to the doctor in attendance.
If inhaled	If not breathing, give artificial respiration, consult a physician.
If skin contact	Wash off with soap and water. If symptoms persist, call a physician.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.
If swallowed	Rinse mouth with water. Do not give anything to the mouth of an unconscious person. Call a physician or poison control center immediately.
5, FIREFIGHTING MEASURES	
Suitable extinguishing media	no data available
Special hazards arising from the substance or mixture	Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Advice for firefighters	Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Further information	no data available
6, ACCIDENTAL RELEASE MEASURES	

Personal precautions, protective equipment and emergency procedures	Avoid breathing vapors, mist or gas.
Environmental precautions	no data available
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.
7, HANDLING AND STORAGE	
Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin, eyes, and clothing.
Conditions for safe storage, including any incompatibilities	Store below -20°C.
8, EXPOSURE CONTROLS/PERSONAL PROTECTION	
Control parameters	**Occupational Exposure Limits** Contains no substances with occupational exposure limit values.
Exposure controls	**Appropriate engineering controls** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. **Personal protective equipment** **Eye/face protection** Face shield and safety glasses Use equipment for eye protection. **Skin protection** Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. **Body Protection** Wear impermeable clothing. **Respiratory protection** Respiratory protection not required.
9, PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Colorless to slightly white
Odor	Odorless.
pH	6.8 to 7.2
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapor pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available
10. STABILITY AND REACTIVITY	
Chemical stability	Stable at general condition.

Reactivity	no data available
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	no data available
Hazardous decomposition products	no data available
11, TOXICOLOGICAL INFORMATION	
Acute toxicity	Acute dermal toxicity study has been conducted using rats; LD50 ≥ 2000 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available
Potential health effects	no data available
12, ECOLOGICAL INFORMATION	
Toxicity	no data available
Persistence and degradability	no data available
Bio-accumulative potential	no data available
Mobility in soil	no data available
Results of PBT and vPvB assessment	no data available
Other adverse effects	no data available
13, DISPOSAL CONSIDERATIONS	
Waste treatment methods	Disposal must be in accordance with appropriate regional, national, and local laws and regulations.
Contaminated packaging	Disposal must be in accordance with appropriate regional, national, and local laws and regulations.
14, TRANSPORT INFORMATION	
ADR/RID	Not regulated, Not dangerous goods
Name	-
UN number	-
Packaging group	-
IMDG	Not regulated, Not dangerous goods
Name	-
UN number	-
Transport hazard	-
Packaging group	-
Marine pollutant	no
IATA	Not regulated, Not dangerous goods
Name	-
UN number	-
Packaging group	-
Environmental hazards	Not corresponding.
15, REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information	
Fire Service Law:	Not applicable to dangerous materials.

Poisonous and Deleterious Substances Control Law:	Not applicable
Industrial Safety and Health Law Ordinance on Prevention of Hazards Due to Specified Chemical Substances: Ordinance on Prevention of Organic Solvent Poisoning: Harmful Substances Required Permission for Manufacture: Substances Subject to be Notified Names: Substances Subject to be Indicated Names: Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity: Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity: Harmful Substances Prohibited from Manufacture: Substances Prevented From Impairment of Health: Ordinance on Prevention of Lead Poisoning: Ordinance on Prevention of Tetra-alkyl Lead Poisoning: Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances): Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof: Chemical Substance Control Law:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.
16. OTHER INFORMATION	
Reference	--
Further information	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The

	information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bold Biotechnology Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.