

Invent Biotechnologies, Inc.

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Material Safety Data Sheet

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SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Catalog No.
Minute™ Total Protein Extraction Kit for Animal Cultured Cells/tissues	SD-001/ SN-002
Minute™ Cytoplasmic and Nuclear Extraction Kit	SC-003
Minute™ Plasma Membrane Isolation kit	SM-005
Minute™ Plasma Membrane Isolation kit for Plants	SM-005-P
Minute™ Mitochondria Membrane Protein Isolation Kit	MP-007
Minute™ Total Protein Extraction Kit for Plant Tissues	SD-008/SN-009
Minute™ Detergent-Free Plant Protein Extraction Kit	SN-010
Minute™ Chloroplast Isolation Kit	CP-011
Minute™ Single cell Isolation Kit	SN-012
Minute™ Nuclear Envelope Protein Extraction Kit	NE-013
Minute™ Histone/DNA binding Protein Extraction Kit	HP-014
Minute™ Total Protein Extraction Kit for Microbes with Thick Cell Walls	YT-015
Minute™ Yeast Plasma Membrane Enrichment Kit	YM-017
Minute™ Plant Microsomal Membrane Extraction Kit	MM-018
Minute™ Protein/Nucleic Acid Extraction Kit from Gels	PN-019
Minute™ Total Protein Extraction for Adipose Tissues/Adipocytes	AT-022
Minute™ Adipose Tissue Fractionation Kit	AF-023
Minute™ Detergent- Free Nuclei Isolation Kit	NI-024
Minute™ Protein Extraction Kit for Fixed and Embedded Tissues	FE-025

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/	
Non-hazardous	Non-hazardous
Components	Phosphate-buffered saline (10%)

SECTION 3 — HAZARDS IDENTIFICATION

Physical/chemical	
Hazards	The products contain no substances which at their given concentration are considered to be hazardous to human.
Potential health effects	Not available
Eyes	Not available
Skin	Not available
Inhalation	Not available
Ingestion	Not available
Other Toxic Effects	
on humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available

Reproduction toxicity	Not available
Teratogenic effects	Not available

SECTION 4 — FIRST AID MEASURE

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personal. If large quantities of this material are swallowed, call a physician immediately.
Skin contact	In case of contact, immediately flush the skin with plenty of water. Remove contaminated clothes and shoes.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 min. get medical attention.
Aggravating condition	Prolonged exposure is not known for aggravate medical condition.

SECTION 5 — FIRE FIGHTING MEASURES

Flammability	May be combustible at high temperature.
Extinguishing media	
Suitable	Use dry chemical for small fire, for large fire, use water spray, fog or foam. Do not use water jet
Hazardous	
Decomposition	These products are carbon oxides (CO, CO ₂), nitrogen oxides etc.
Fire-fighting procedure	Fire fighter should wear positive pressure self-contained breathing Apparatus and full turnout gear.
Protecting of fire-fighters	Be sure to use approved/certified respirator or equipment.

SECTION 6 — ACCIDENTAL RELEASE MEASURE

Personal Precautions	Splash goggles, full suit, boots and gloves. Consult a specialist.
Spill and leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.

SECTION 7 — HANDLING AND STORAGE

Handling	Keep away from heat and source of ignition. Empty containers pose a fire risk.
Storage	Keep container tightly closed and store at room temperature.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures	Use process enclosure, local exhaust ventilation, or other Engineering controls to keep airborne level recommended limits.
Hygiene measures	Wash hands after handling the materials.
Personal protective equipment	
Skin and body	Lab coat
Eyes	Safety glasses

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	Not available
Molecular Weight	Not available
Solubility	Not available
Flash point	Not available
Explosive properties	Not available

SECTION 10 — STABILITY AND REACTIVITY

Stability	The product is stable
Conditions to avoid	Not available
Products of hazardous decomposition	These products are carbon oxides (CO, CO ₂), nitrogen oxides etc.

SECTION 11 — TOXICOLOGICAL INFORMATION

RTECS #	N/A
Local effects	
Skin irritation	Not available
Acute toxicity	LD50 and LC50: Not available
Chronic toxicity	Repeated or prolonged exposure is not known for aggravate medical condition.
Other Toxic Effects	
on humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproduction toxicity	Not available
Teratogenic effects	Not available

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Toxicity of product of biodegradation	The product itself and its degradation products are not toxic.

SECTION 13 — DISPOSAL CONSIDERATIONS

Methods of disposal	Waste must be disposed of in accordance with federal, state, and local control regulations.
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SECTION 14 — TRANSPORT INFORMATION

IATA	
Proper shipping name	Not classified as dangerous in the meaning of transport regulations.
Hazard class	Not available
Subsidiary class	Not available
Packing group	Not available
Un-no	Not available

SECTION 15 — REGULATORY INFORMATION

EU regulation	
Risk phrases	This product is not classified according to the EU regulation.

U.S. Federal Regulations	This product is not regulated by SARA 313 This product does not contain HAPs.
HCS Classification	Not-controlled under the HCS (United States)
State regulations	
California Proposition 65	This product does not contain chemicals listed under proposition 65
WHMIS (Canada)	Non-controlled

SECTION 16 — OTHER INFORMATION

This product is sold for research use only. It is not intended for human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household or cosmetic use. A technically competent individual must supervise the use of this product. The above product information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information is to be used as a guide and shall not be taken as being all inclusive. All materials and mixtures may be present unknown hazards and should be used with caution. Since Invent Biotechnologies Inc. cannot control the actual methods or conditions of use, the company shall not held responsible for any damages or losses resulting from contact with the product described herein. The information in this msds does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

End of Safety Data Sheet

