Section 1: product name
5 min Circulating DNA Extraction Kit

Section 2: Composition and Information on Hazardous Ingredients
Circulating DNA Solution
Proprietary Component 25-30 % of whole weight
No alcohol and no isopropanol

DNA Washing Solution
18 ml of Distilled water

DNA Elution Buffer
Distilled water with less than 1 % of proprietary component

Section 3: Hazards Identification Potential Health Effects
Acute Toxicity Eyes May cause irritation. Skin May cause irritation. Inhalation. May cause irritation of respiratory tract. Ingestion May cause irritation. Chronic Effects. No known effect based on information supplied. Aggravated Medical Conditions None known.

Section 4: First Aid Measures
Eyes: Flush eyes with plenty of water for at least 15-20 minutes, occasionally lifting upper and lower eyelids. Obtain medical assistance. Remove contact lenses before treatment.
Skin: Obtain medical assistance. Flush skin with plenty of water for at least 15-20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Ingestion: Never give anything by mouth to an unconscious person. Obtain medical assistance. Do not induce vomiting unless directed by medical personnel. If conscious and alert, rinse mouth and drink 2-4 cupfuls water. Wash mouth out with water. Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical assistance. Notes to Physician: Treat symptomatically and supportively.
Section 5: Fire Fighting Measures General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand mode, MSHA/NIOSH (approved or equivalent), and wear full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution. Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistance foam. Use agent most appropriate to extinguish the fire. Sensitivity to Mechanical Impact: Not sensitive. Sensitivity to Static Discharge: Not sensitive. Not considered an explosion or fire hazard. Explosion Limits, Lower and Upper: Not available No Special Remarks Available for fire or explosion hazards. NFPA rating: Health 0 Flammability 0 Stability 0

Section 6: Accidental Release Measures
General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Clean up spills immediately, observing precautions given in Section 8. If liquid evaporates, avoid dusty conditions. Provide ventilation. Follow local, regional and national disposal regulations and requirements. Avoid direct contact with skin or eyes. Store solution as directed in instructions and away from incompatible reagents

Section 7: Handling and Storage Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Storage: Store in a tightly closed container. Avoid heat. Store in a cool, dry, well-ventilated area away from incompatible substances

Section 8: Exposure Controls/Personal Protection Engineering controls:
Facilities storing or using this material should be equipped with an eyewash facility and safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Exposure limits: No OSHA Final or vacated PELS, not NIOSH or ACGIH listed. Avoid repeated exposure. Chronic exposure Respiratory protection: Follow respirator rules 29CFR1910.134, European Standard EN149 or other appropriate standard. Use a NIOSH/MSHA or European EN 149 approved respirator if irritation or other symptoms are experienced. Personal Protective Equipment: Wear appropriate clothing and gloves to prevent skin exposure. Wear protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29CFR1910.133 or EN 166.

Section 9: Physical and Chemical Properties
Dissolve powder in a colorless solution.
Section 10: Stability and Reactivity Stability
Stable under ambient temperature and normal conditions.

Section 11: Toxicological Information
Acute Effects: Does not present an acute toxicity hazard based on known or supplied information.
Chronic Toxicity: Target Organ Effects None known.

Section 12: Ecological Information Ecotoxicity/Ecology:
No information available.

Section 13: Disposal Considerations
Dispose material and container in accordance with appropriate federal, state and local laws and regulations. Recover and recycle if possible. Processed material may require different disposal methods.

Section 14: Transport Information
No special considerations are known. Not a DOT/IATA/IMDG controlled material.

Section 15: Regulatory Information
TSCA Yes DSL Yes EINECS/ELINCS Yes ENCS Yes IECSC Yes KECL Yes PICCS Yes AICS Yes SARA 313
Not subject to the reporting requirements of SARA 313.t and Title 40 of the Code of Federal Regulations, Part 372. SARA 311/312 Hazard Categories Acute Health Hazard No Chronic Health Hazard No Fire Hazard No Sudden Release of Pressure Hazard No Reactive Hazard No Does not contain any substances regulated as pollutants pursuant to the Clean Water Act or hazardous air pollutants. under Section 112 of the Clean Air Act Amendments of 1990. California Proposition 65 Does not contain Proposition 65 chemicals. Mexico - Grade No information available. Canada - This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and This safety data sheet contains all the information required by the CPR. WHMIS Hazard Class Not determined.

Section 16: Other Information
The information herein is based on information from suppliers believed to be reliable; however, Biofactories makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. This document is offered solely as a guide for the customer's consideration, investigation and verification. These suggestions do not replace state, municipal and/or insurance requirements. Any use of this information must be determined by the user.