

High Purity Plasmid DNA Miniprep Kit**SECTION 1: Identification**

Product identifier: High Purity Plasmid DNA Miniprep Kit.

MediRes catalogue number: Bi2M-PlasMini

Pack size: 100 reactions.

Recommended use: Small-scale purification of plasmid DNA in laboratory research.

Restrictions on use: For research use only. Not for diagnostic, therapeutic, food, household or cosmetic use.

Supplier: MediRes Corp., 109 Elm Street, Sudbury, ON P3C 1T4, Canada. Telephone: +1 705-222-2847. Email: sales@medi-res.com.

Emergency telephone: +1 705-222-2847. For exposure or poisoning, contact a poison control centre or emergency medical service.

SECTION 2: Hazards identification

Classification: Reagent-specific GHS classification is not established from the disclosed upper-limit concentrations. Harmful to aquatic life is reported.

Signal word: None assigned for the reported aquatic acute Category 3 hazard

Hazard pictograms: None assigned on the available classification information.

Code	Hazard statement
H402	Harmful to aquatic life.

Other hazards: Guanidine thiocyanate-containing reagents and waste must not be mixed with bleach, acids or oxidizers; toxic gases may be released. Acidic and alkaline reagents can cause burns depending on concentration and pH. Use splash protection and avoid all contact.

Prevention: P260 - Do not breathe dust, vapour, mist or spray. P264 - Wash thoroughly after handling. P280 - Wear protective gloves, protective clothing and eye protection. P273 - Avoid release to the environment.

Response: P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse skin with water or shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P310 - Immediately call a POISON CENTRE or doctor. P363 - Wash contaminated clothing before reuse. P304+P340 - IF INHALED: Remove to fresh air and keep comfortable for breathing.

Storage and disposal: P405 - Store locked up. P501 - Dispose of contents and container through an approved waste service in accordance with applicable regulations.

Unknown acute toxicity: Percentage of ingredients with unknown acute toxicity is not available.

SECTION 3: Composition and information on ingredients

Separate mixtures; percentages are supplier upper limits with no stated basis or component allocation. The acetic-acid entry has no usable unit and is treated as unavailable.

Component	Chemical name	CAS No.	Content
Kit; vial not assigned	Tris base	77-86-1	<20%
Kit; vial not assigned	Sodium dodecyl sulfate	151-21-3	<20%
Kit; vial not assigned	Acetic acid	64-19-7	Not available
Kit; vial not assigned	Sodium hydroxide	1310-73-2	<20%
Kit; vial not assigned	Phenol red	143-74-8	<20%
Kit; vial not assigned	Sodium chloride	7647-14-5	<20%
Kit; vial not assigned	Guanidine thiocyanate	593-84-0	<20%
Kit; vial not assigned	D-Glucose monohydrate	14431-43-7	<20%
Kit; vial not assigned	Other ingredients	Not specified	<10%
Kit; vial not assigned	Water	7732-18-5	Balance

HMIRA exemption: No registry number or exemption details are supplied.

SECTION 4: First aid measures

Inhalation: Remove to fresh air and keep comfortable for breathing. If breathing is difficult or symptoms persist, obtain medical attention. Trained personnel should provide assisted breathing or oxygen when indicated.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, lifting the eyelids. Remove contact lenses if present and easy to do; continue rinsing. Obtain immediate medical attention.

Skin contact: Immediately remove contaminated clothing and shoes. Flush skin thoroughly with plenty of water for at least 15 minutes. Obtain immediate medical attention for suspected burns or persistent symptoms. Wash clothing before reuse.

Ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison control centre or doctor.

Symptoms and effects: Skin, eye or respiratory discomfort may occur after exposure. Delayed and chronic effects are not established.

Immediate care and treatment: Treat symptomatically and according to exposure. No product-specific antidote is identified. Urgent treatment is indicated for burns, eye injury or breathing difficulty.

SECTION 5: Fire fighting measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide or foam appropriate to the surrounding fire.

Unsuitable media: Avoid a solid water jet that may spread spilled material.

Specific fire hazards: Hazardous combustion products may be released in a fire. Product-specific fire and explosion test data are not available.

Firefighter protection: Wear self-contained breathing apparatus and full protective equipment. Cool exposed containers with water spray when safe. Contain contaminated firefighting water.

SECTION 6: Accidental release measures

Personal precautions: Restrict access to trained personnel. Ventilate the area and wear the protection described in Section 8. Avoid contact and aerosol or dust generation.

Containment and cleanup: Stop the leak if safe. Absorb liquid with a compatible inert absorbent. For solid components, collect gently without generating dust. Place waste in closed, labelled, compatible containers. Prevent entry into drains and waterways. Obtain specialist help for large or uncontrolled spills. Do not use bleach or acid to clean guanidine-containing spills.

SECTION 7: Handling and storage

Safe handling: Use trained laboratory personnel and appropriate ventilation. Avoid inhalation, ingestion and skin or eye contact. Do not eat, drink or smoke during handling. Wash hands after use. Avoid generating aerosols and splashes.

Storage conditions: Store at -20 °C as specified by the supplier. Keep containers closed and segregate incompatible reagents.

Incompatibilities: Bleach, acids and oxidizers with guanidine-containing reagents or waste. Segregate acidic and alkaline components except during the specified laboratory procedure.

SECTION 8: Exposure controls and personal protection

Control parameters: Product-specific occupational exposure limits and biological exposure indices are not available.

Engineering controls: Provide adequate ventilation and accessible eyewash and safety-shower facilities. Use local exhaust for operations that generate aerosols or dust.

Skin and hand protection: Wear chemical-resistant gloves and a laboratory coat. Select glove material and replacement interval using the glove manufacturer's compatibility data for the product and exposure duration.

Eye and face protection: Wear chemical splash goggles. Add a face shield where substantial splashing is possible.

Respiratory protection: Respiratory protection is not a substitute for ventilation. If ventilation cannot control exposure, use an approved respirator selected for the contaminant and workplace exposure. Emergency responders require suitable supplied-air protection.

SECTION 9: Physical and chemical properties

Property	Information
Physical state	Liquid
Colour / appearance	G3630-2: clear red; G3630-4: clear colourless. Other component colours are not specified.
Odour	Characteristic reagent odour; G3630-4 has an acetic-acid odour.

Property	Information
Odour threshold	No data available.
pH	No data available.
Melting / freezing point	No data available.
Boiling point / range	No data available.
Flammability	See Section 2; quantitative mixture data are not available.
Lower / upper explosive limits	No data available.
Flash point	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient (n-octanol/water)	No data available.
Vapour pressure	No data available.
Relative density	No data available.
Relative vapour density	No data available.
Particle characteristics	No particle-size data available.

SECTION 10: Stability and reactivity

Reactivity: Bleach, acids and oxidizers with guanidine-containing reagents or waste. Segregate acidic and alkaline components except during the specified laboratory procedure.

Chemical stability: Stable under the recommended storage conditions.

Possibility of hazardous reactions: Contact with incompatible chemicals can release toxic gas. Further product-specific reaction data are not available.

Conditions to avoid: Excess heat, ignition sources and direct sunlight; avoid contact with incompatible materials.

Hazardous decomposition products: Product-specific data are not available. Hazardous fumes may form during fire or thermal decomposition.

SECTION 11: Toxicological information

Likely exposure routes: Skin and eye contact, accidental ingestion and inhalation of mist, vapour or aerosol.

Endpoint	Information
Acute toxicity	No data available.
Skin corrosion / irritation	Reagent-specific data are not available. Sodium hydroxide and acetic acid can cause irritation or corrosion depending on concentration.
Serious eye damage / irritation	Reagent-specific data are not available. Acidic and alkaline components may cause serious eye injury.
Respiratory / skin sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
STOT, single exposure	No data available.
STOT, repeated exposure	No data available.
Aspiration hazard	No data available.

Immediate and delayed effects: Skin, eye or respiratory discomfort may occur after exposure. Delayed and chronic effects are not established.

Numerical measures: Values stated above are source-reported. Other LD50, LC50 and mixture acute toxicity estimates are not available.

SECTION 12: Ecological information

Ecotoxicity: Harmful to aquatic life; quantitative data are not available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No additional data available. Avoid uncontrolled environmental release.

SECTION 13: Disposal considerations

Disposal methods: Collect unused reagent, contaminated absorbent and containers for disposal through an approved laboratory chemical-waste service. Do not discharge to drains. Empty containers may retain residues. Follow applicable local, provincial and federal waste requirements. Keep guanidine-containing waste separate from bleach, acids and oxidizers.

SECTION 14: Transport information

Transport status: The supplier reports the product is not regulated as dangerous goods under IATA, IMDG and US DOT.

UN transport information: UN number, proper shipping name, transport class and packing group: not assigned by the supplier.

Canadian TDG: Canadian TDG classification data are not available.

Environmental transport hazards: No transport-specific environmental hazard data available.

Special precautions: Ship with wet ice. Keep containers tightly closed and protected from damage.

Transport in bulk under IMO instruments: Not applicable to the packaged laboratory product.

SECTION 15: Regulatory information

Canada: Hazard communication uses the 16-section WHMIS SDS structure. Hazard information is stated in Section 2. Canadian inventory status, product-specific regulatory listings and HMIRA exemption information are not available.

Other jurisdictions: Product-specific regulatory determinations are not available. Research-use designation does not establish an exemption from chemical or transport requirements.

SECTION 16: Other information

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Prepared by: MediRes Corp. Email: sales@medi-res.com.

Abbreviations: GHS: Globally Harmonized System; WHMIS: Workplace Hazardous Materials Information System; STOT: specific target organ toxicity; LD50/LC50: median lethal dose/concentration; ATE: acute toxicity estimate; TDG: Transportation of Dangerous Goods; HMIRA: Hazardous Materials Information Review Act.

Disclaimer: This information is intended as guidance for safe handling, use, storage, transport and disposal of the identified material. It is not a warranty or quality specification and may not apply to other formulations, combinations or processes. No batch-specific test data are implied by reference chemical information.

End of Safety Data Sheet