

## Risk Assessment – VI-RA-013- PureYield Plasmid Midi preparation

### Scope

The PureYield™ Plasmid Midiprep System is designed to isolate transfection-quality plasmid DNA. The system provides a rapid method for purification of 100–200µg of plasmid DNA from 50ml bacteria culture. Purification is achieved without isopropanol precipitation of purified plasmid DNA or extensive centrifugation, providing rapid purification from a single method.

Carried out by:	Tiphaine Bouriez-Jones		Date carried out:	May 2015	Review Due:	May 2018	
Hazard (Cause and consequence)	Affected Groups		Existing controls			Risk	Further actions
Infection from exposure to Biological agent - Via direct contact with the pathogen (i.e. skin adsorption from splash) - Via spill of material - Via incorrect disposal of waste	Staff Students and visitors		<b>CL2 biological agents</b> Users are trained to follow good microbiological practice. They must wear blue labcoat, nitrile gloves and safety spectacles at all time whilst working in CL2.  Procedures in case of spill or exposure policies are explained at induction and the policies are displayed in the CL2 laboratories.			Low	Yearly checks on BSC in CL2
Injury due to misuse or faulty equipment	Staff Students and visitors		All users are trained in the correct operation of instruments. Specialised equipment such as centrifuges and incubators are under maintenance service contract.			Low	Incubators and centrifuges serviced yearly
Exposure to chemicals <b>Cell lysis solution</b> H315 Causes skin irritation. H319 Causes serious eye irritation. <b>Neutralisation solution</b> H302 Harmful if swallowed. H315 Causes skin irritation.	Staff, students and visitors		Users are trained and instructed on the safe use and storage of chemicals. Via Inhalation: Stock only be available in solution. Via skin adsorption: User must wear gloves and labcoat at all time. Via instillation (eye): User must wear safety spectacles at all time.  <b>See specific COSHH risk assessment for each chemical.</b>			Low	None



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H319 Causes serious eye irritation <b>Endotoxin removal wash</b> H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.				
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It is the users responsibility to ensure what controls are needed to ensure that the health of themselves and others around them. It is imperative that you **DO NOT** start any work until you are absolutely sure of the appropriate precautions that need to be employed. If you are unsure seek advice from your line/laboratory manager or your departmental safety officer (DSO).