Risk Assessment of Laboratory Work with Chemicals (AFS 2011:19)1 (LBE)2 (MSBFS 2020:1)3

Department/Division: **Pure and Applied Biochemistry**

Operation/Activity: **Plasmid digestion**

	The operation includes handling of the following chemicals, mixtures and solutions			
	Chemical/Mixture/Solution	CAS No.	Amount	Indications of danger
1	10X FastDigest green buffer	N/A	1.5 mL	Not hazardous
2	10X FastDigest buffer	N/A	1.5 mL	Not hazardous
3	FastDigest enzyme BamHI	N/A	1.5 mL	Not hazardous
4	FastDigest enzyme NdeI	N/A	1.5 mL	Not hazardous

	Identification of separate operations/activities that may involve the risk of accident or risk to health					
	Operation/Activity	Risk/Problem	Consequence	Probability	Assessed risk	Risk-reducing measures
1	Digestion of vector	Touching the heat block may cause burns	Mild	Possible	Hazardous	Should not touch the heat block directly, Wear heat-protecting gloves.

	Yes/No	Comments:
Rules for working alone has been observed	**yes**	Supervisor needs to be present at all time, no individual work allowed
The possibility of evacuation and ventilation/water/power failure has been taken into account	**yes**	All work will be stopped, flasks closed, staff will evacuate or wait until the power/water/ventilation will be turned on
Environmental issues have been considered	**yes**	Follow waste management rules, no concentrated substance will be poured down the drain
Special risk assessment for pregnant staff has been done	**yes**	

References:

KLARA

Date: 2026-06-17

Risk assessment made by:

Name: Emma Esping, iGEM Lund 2025

Risk assessment checked by:

Name: Rytis Jurgaitis, iGEM Lund 2026

1) AFS 2011:19 Chemical Hazard in the Working Environment, provisions (amanded and reprinted in 2014:5; 2014:43; 2017:4; 2018:2; 2019:9)

Last updated 2026-06-17

2) Lag (2010:1011) om brandfarliga och explosiva varor (LBE)

3) MSBFS 2020:1 föreskrifter om hantering av brandfarlig gas och brandfarliga aerosoler