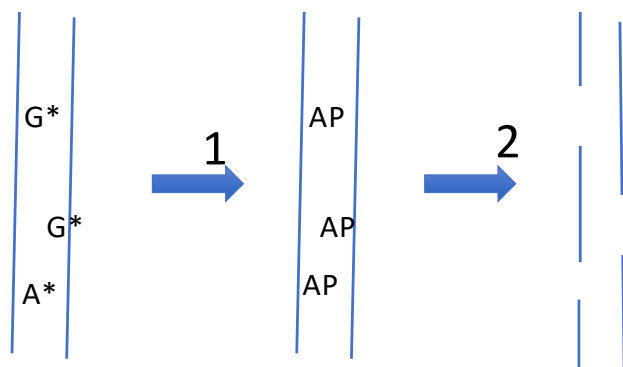


A.

0.65 ml tube	DNA0	MMS: 10mM final	MNU: 1mM final	ENU: 30mM final
pBR322 1ug in CE buffer	90ul	90ul	90ul	90ul
Alkylating agent in DMSO	10ul DMSO	10ul MMS at 100mM	10ul MNU at 10mM	10ul ENU at 300mM
Temp / time	50°C / 40 min	40°C / 30min	50°C / 16 min	50°C / 40 min

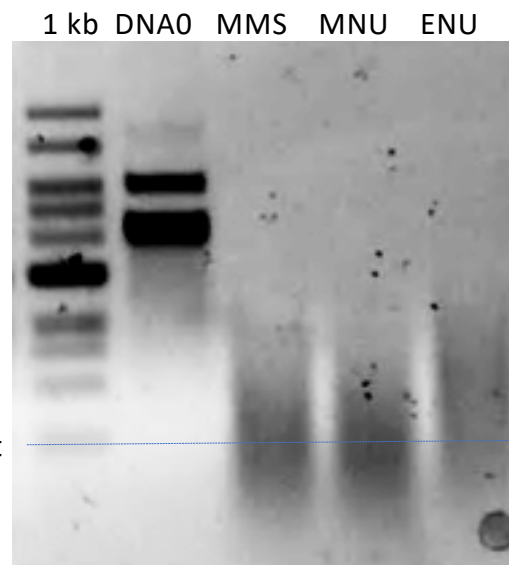
Alkylation reaction conditions leading to an average of one N- alkylation adduct every 500 nt.



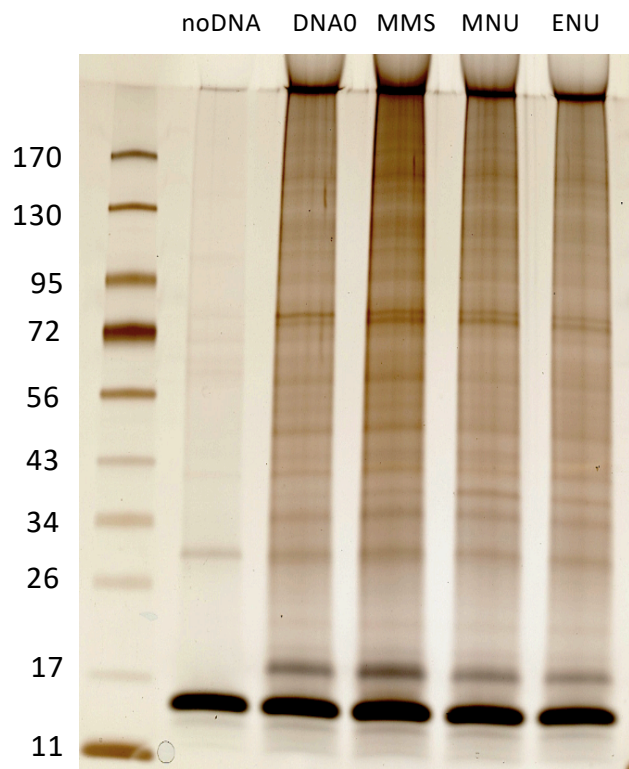
Cleavage at 7mG (G\*) and 3mA adducts (A\*):

1. Heat-induced depurination at pH7 (90°C, 15')
2. Heat-induced strand cleavage at pH13 (90°C, 30')

500 nt



B.



C.

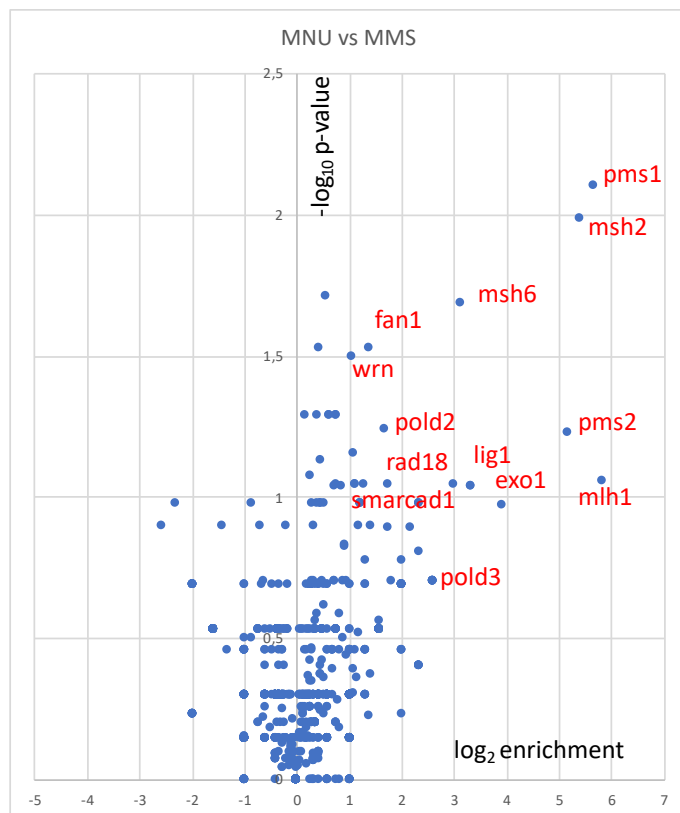


Figure 1-figure supplement 1