Analysis Certificate

NDM-1

Lot : 231014

Production:	CIP (Université de Liège)
Strain :	*E. coli*
Lot :	231014
Purity :	90-95 % (SDS–PAGE)
Concentration A^{280} :	1,2 mg/ml (45,3 µM).
Specific Activity :	Nitrocefin 100 µM (ε : 17000 M^{-1} cm^{-1} à 386 nm; Δε : 15000 M^{-1} cm^{-1} à 482 nm) 15,3 µmoles min^{-1} mg^{-1} NDM-1 turnover de 6,7 sec^{-1}.
Storage buffer :	20 mM Hepes, 50 µM $ZnCl_2$, pH 8

Sequence :

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        10          20          30          40          50          60
MEIRPTIGQQ METGDQRFGD LVFRQLAPNV WQHTSYLDMP GFGAVASNGL IVRDGGRVLV

        70          80          90         100         110         120
VDTAWTDDQT AQILNWIKQE INLPVALAVV THAHQDKMGG MDALHAAGIA TYANALSNQL

       130         140         150         160         170         180
APQEGMVAAQ HSLTFAANGW VEPATAPNFG PLKVFYPGPG HTSDNITVGI DGTDIAFGGC

       190         200         210         220         230         240
LIKDSKAKSL GNLGDADTEH YAASARAFGA AFPKASMIVM SHSAPDSRAA ITHTARMADK
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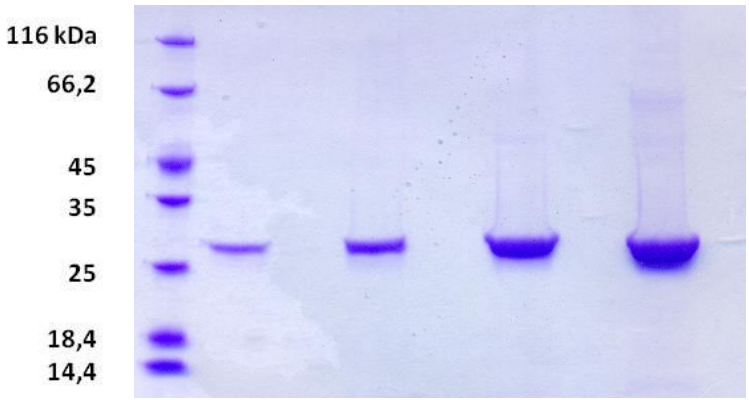
LRHHHHHH

Mw : 26 502.8 g/mol
pI : 6.17
Ext. coefficient 27 960 M^{-1} cm^{-1}
Abs 0.1% (=1 g/l) 1.055

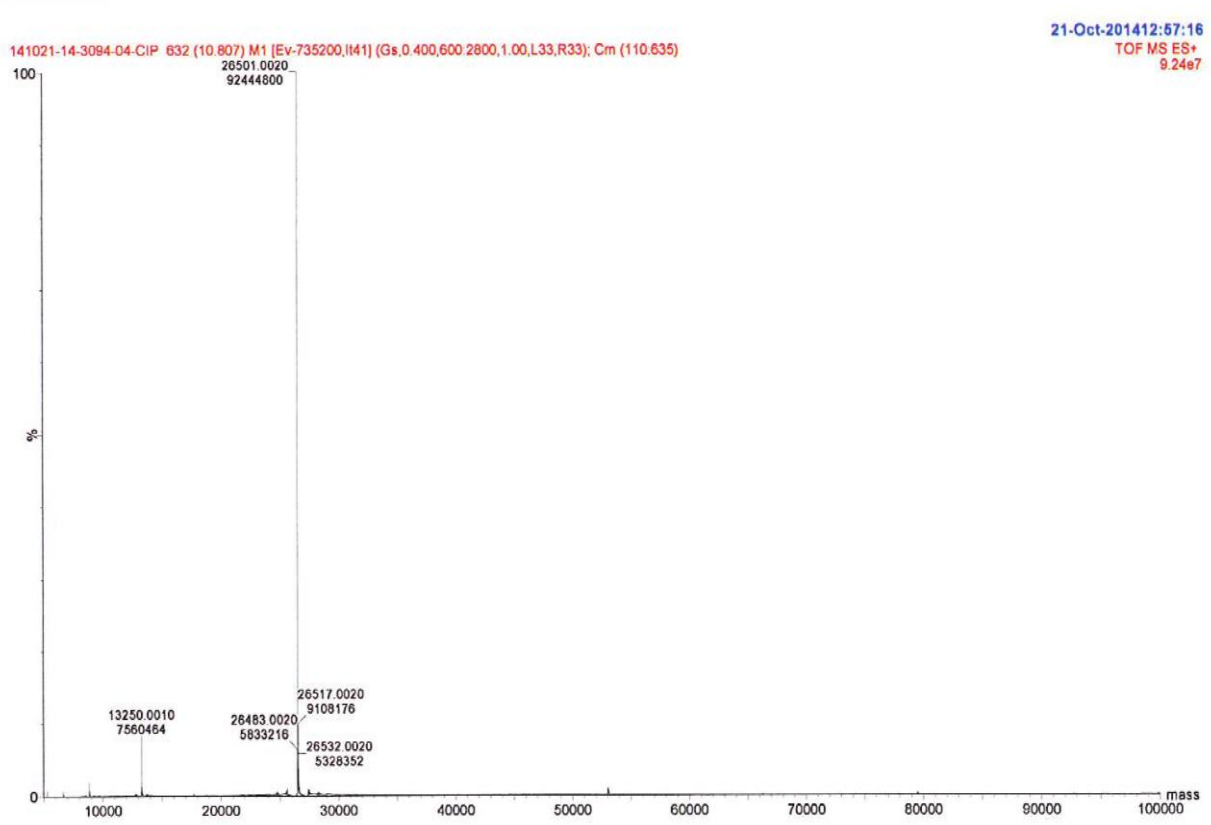
N.B.: The literature mentions a NDM-1 unstable when this enzyme is produced with its native signal peptide. The version of this NDM-1 produced corresponds to the WT enzyme with first 29 aa deleted.

SDS-PAGE 12% :

1µg / 2 µg / 5 µg / 10 µg



SPECTRE DE MASSE :



Peaks appearing at the mass of the protein divided or multiplied by an integer higher than 1 are usually artefacts arising from Max Entropy deconvolution data treatment.

Error : +/- 2.7 Da