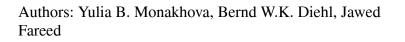
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### ACCEPTED MANUSCRIPT

# Authentication of animal origin of heparin and low molecular weight heparin including ovine, porcine and bovine species using 1D NMR spectroscopy and chemometric tools

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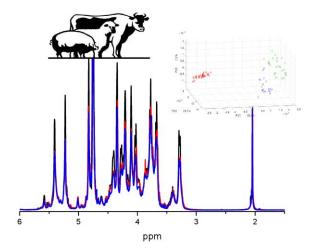
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