

Validation of an assay method for lidocaine, prilocaine and tetracaine using UV detection high-performance liquid chromatography

INTRODUCTION



assessments of this new formulation.

MATERIALS & METHODS



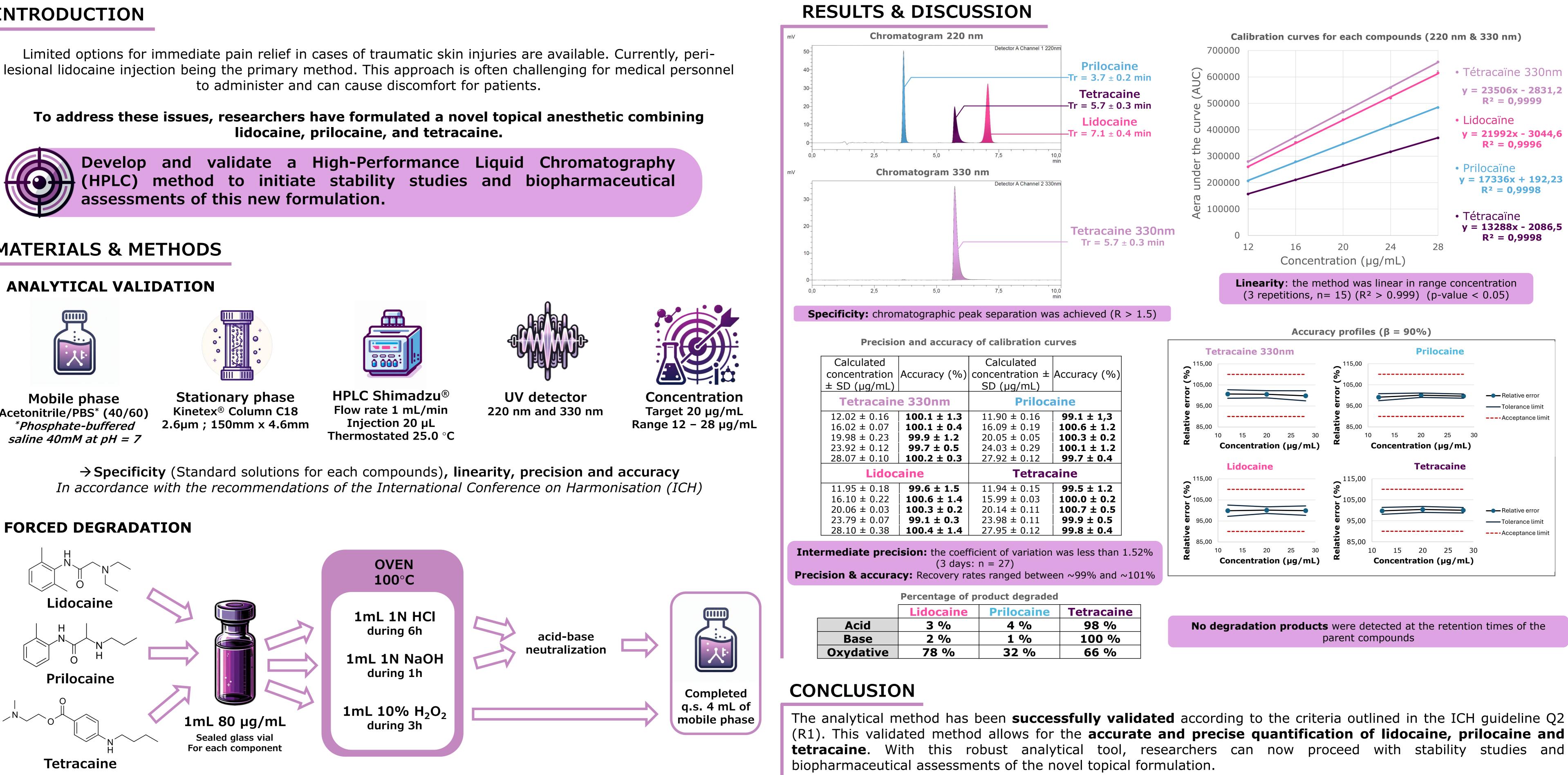
Mobile phase Acetonitrile/PBS* (40/60) *Phosphate-buffered saline 40mM at pH = 7



Stationary phase Kinetex[®] Column C18



HPLC Shimadzu[®] Flow rate 1 mL/min Injection 20 µL



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y (%)	Calculated concentration ± SD (µg/mL)	Accuracy (%)
m	Prilocaine	
± 1.3	11.90 ± 0.16	99.1 ± 1,3
E 0.4	16.09 ± 0.19	100.6 ± 1.2
1.2	20.05 ± 0.05	100.3 ± 0.2
0.5	24.03 ± 0.29	100.1 ± 1.2
£ 0.3	27.92 ± 0.12	99.7 ± 0.4
	Tetrac	aine
1.5	11.94 ± 0.15	99.5 ± 1.2
± 1.4	15.99 ± 0.03	100.0 ± 0.2
± 0.2	20.14 ± 0.11	100.7 ± 0.5
0.3	23.98 ± 0.11	99.9 ± 0.5
± 1.4	27.95 ± 0.12	99.8 ± 0.4

caine	Prilocaine	Tetracaine
%	4 %	98 %
%	1 %	100 %
%	32 %	66 %



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