

Analytical Methods – Electronic Supplementary Information

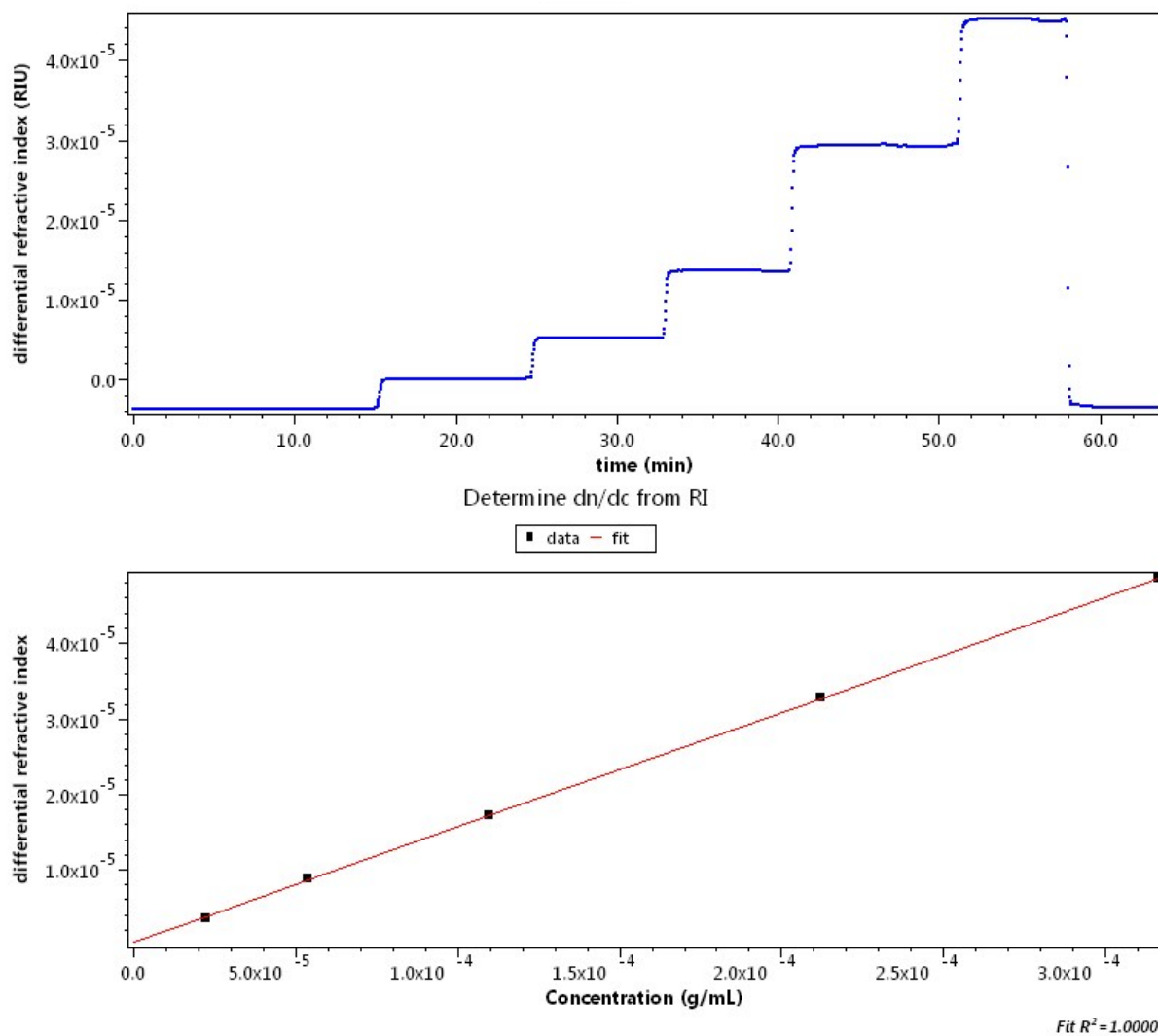
**Comparison of SEC and AF4 analytical tools for size estimation of typhoid Vi polysaccharides**

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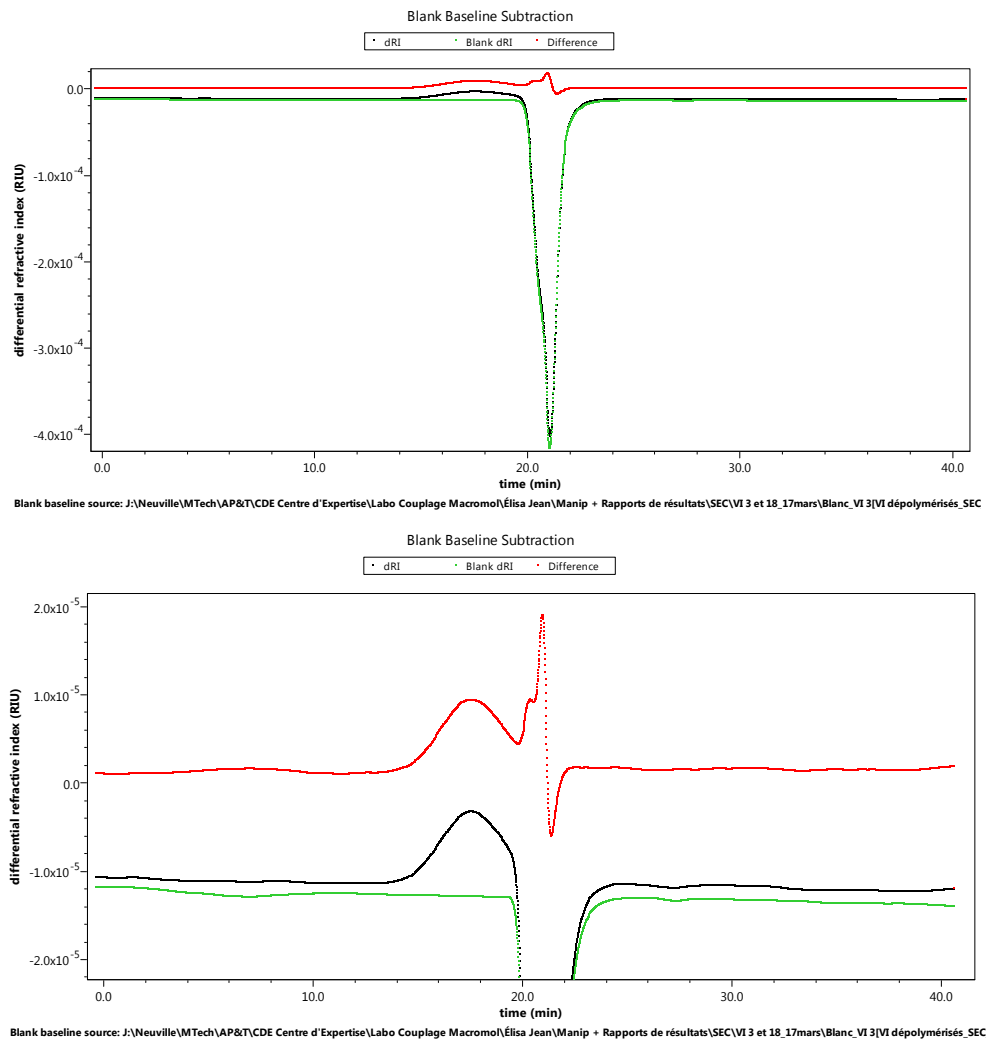
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**Fig. S1** Determination of  $dn/dc$  value. On top: dRI increase following injections of PS of increasing concentrations. On bottom: Plot of the dRI values in function of the PS samples concentrations; the slope corresponds to the  $dn/dc$  value.



**Fig. S2** Blank baseline subtraction of depolymerized Vi-CPS using SEC. In black, Vi-CPS dRI signal; in green blank dRI signal; in red Vi-CPS dRI signal after the blank baseline subtraction.

**Table S1** Retention times (min) of Vi-CPS and depolymerized Vi analyzed using SEC or AF4 separation.

	Vi-CPS		Depolymerized Vi	
	SEC	AF4	SEC	AF4
Series 1- injection 1	10.97	20.12	17.60	12.19
Series 1- injection 2	10.96	20.19	17.62	12.16
Series 1- injection 3	10.97	20.10	17.60	12.17
Series 1- injection 4	10.95	20.10	17.61	12.17
Series 1- injection 5	11.02	20.12	17.63	12.19
Series 2- injection 1	10.93	19.99	17.63	12.14
Series 2- injection 2	10.95	19.96	17.62	12.16
Series 2- injection 3	10.95	20.02	17.62	12.16
Series 2- injection 4	10.95	19.96	17.64	12.16
Series 2- injection 5	10.95	19.96	17.63	12.16
Series 3- injection 1	10.97	19.97	17.62	12.16
Series 3- injection 2	11.04	19.97	17.64	12.17
Series 3- injection 3	10.95	19.97	17.63	12.16
Series 3- injection 4	10.96	19.97	17.64	12.16
Series 3- injection 5	10.96	19.96	17.66	12.17
Series 4- injection 1	10.94	20.05	17.63	12.17
Series 4- injection 2	10.96	20.13	17.64	12.19
Series 4- injection 3	10.94	20.10	17.61	12.17
Series 4- injection 4	10.95	20.08	17.61	12.17
Series 4- injection 5	10.93	20.10	17.61	12.17
Series 5- injection 1	11.38	20.13	17.64	12.17
Series 5- injection 2	10.89	20.19	17.64	12.17
Series 5- injection 3	10.91	20.15	17.60	12.17
Series 5- injection 4	11.20	20.10	17.66	12.19
Series 5- injection 5	10.88	20.16	17.66	12.17
Mean	10.98	20.06	17.63	12.17
Std	0.10	0.08	0.02	0.01
CV (%)	0.94	0.40	0.10	0.10