

**Electronic supplementary information**

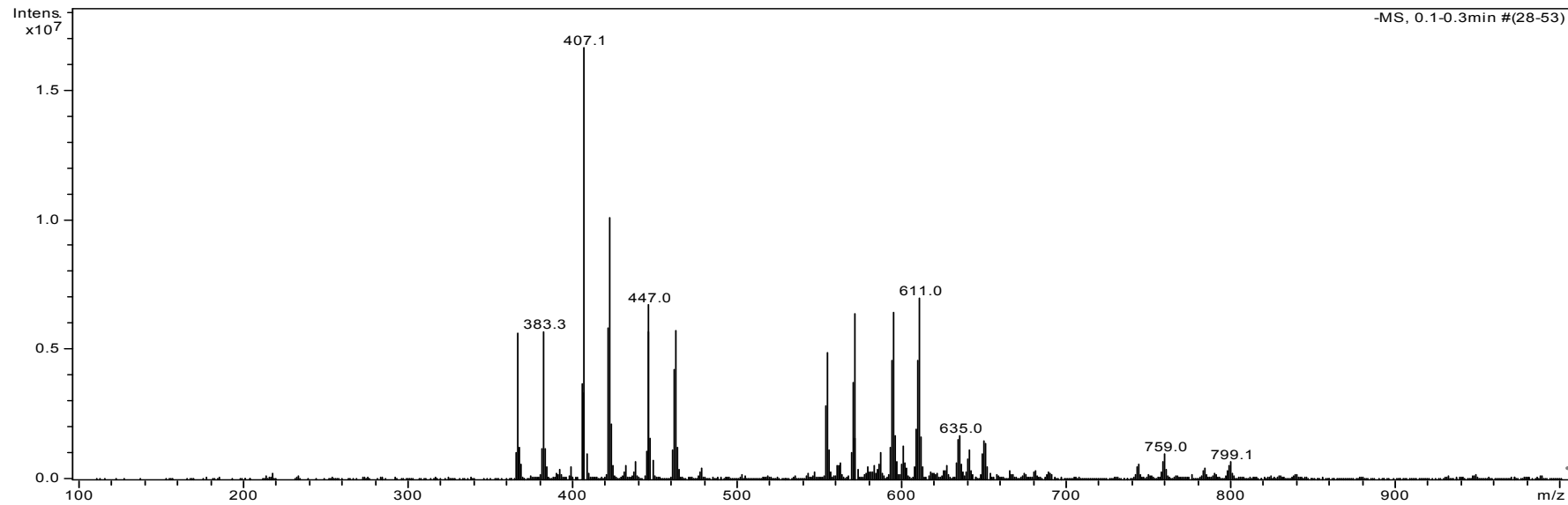
**Chiral separation by nonaqueous capillary  
electrophoresis using L-sorbose–boric acid complexes  
as chiral ion-pair selectors**

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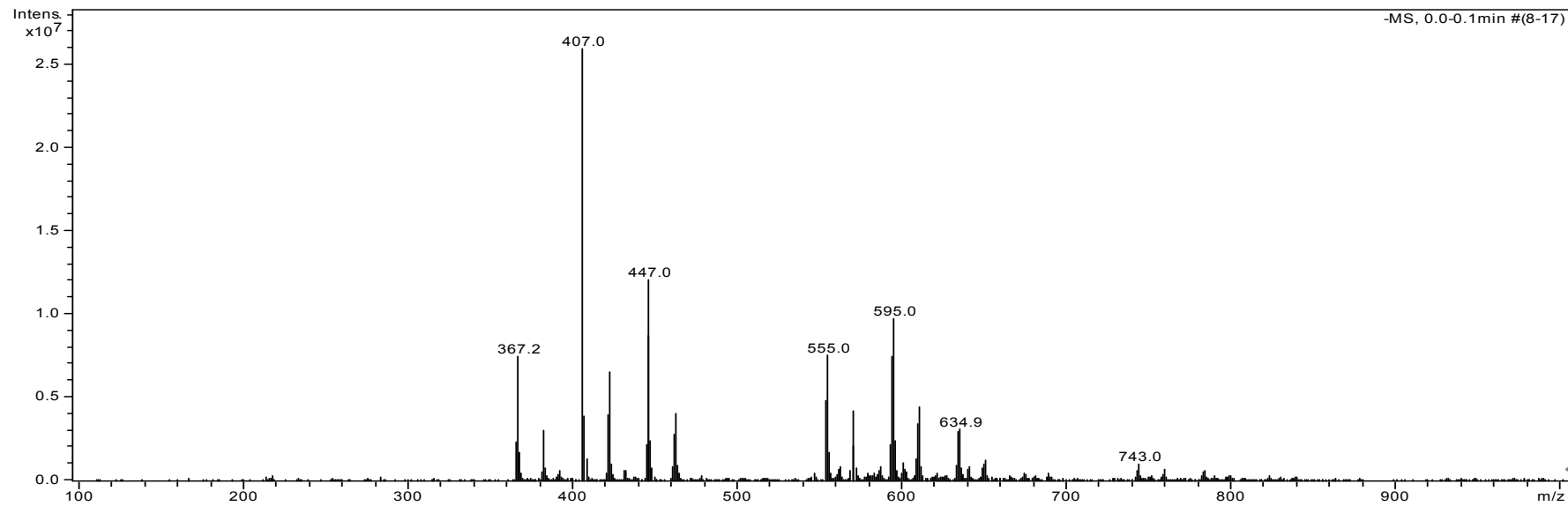
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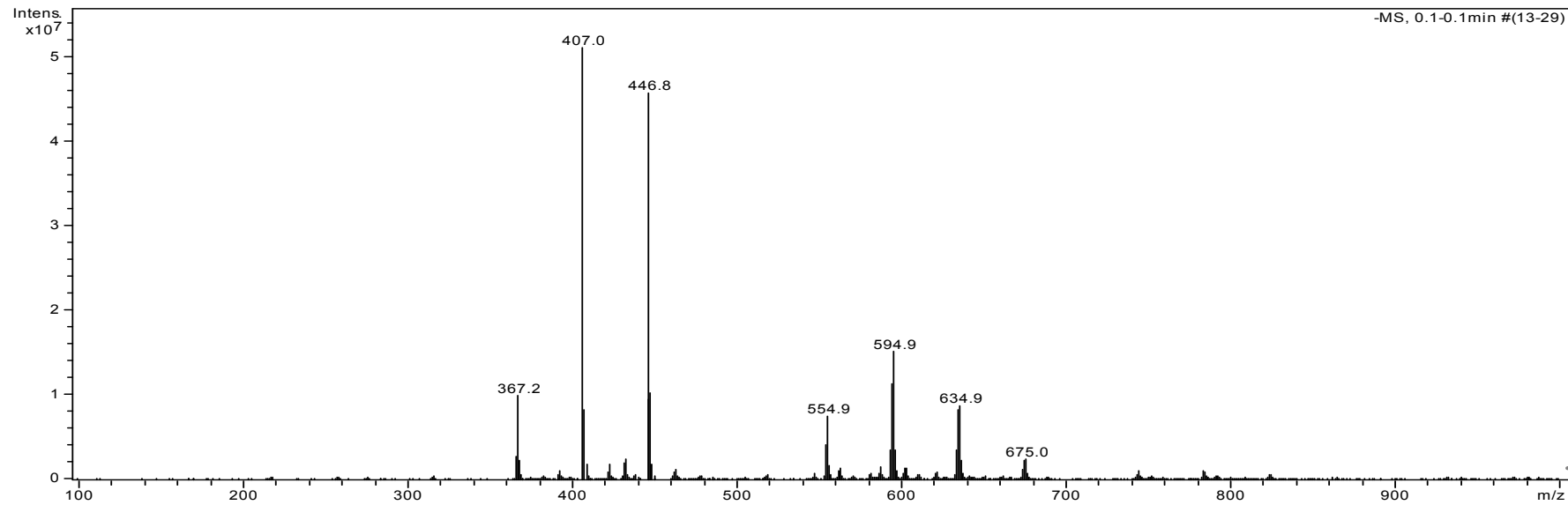
<sup>b</sup>Key Laboratory of Medical Chemistry and Molecular Diagnosis, Ministry of Education, Hebei University, Baoding 071002, China.



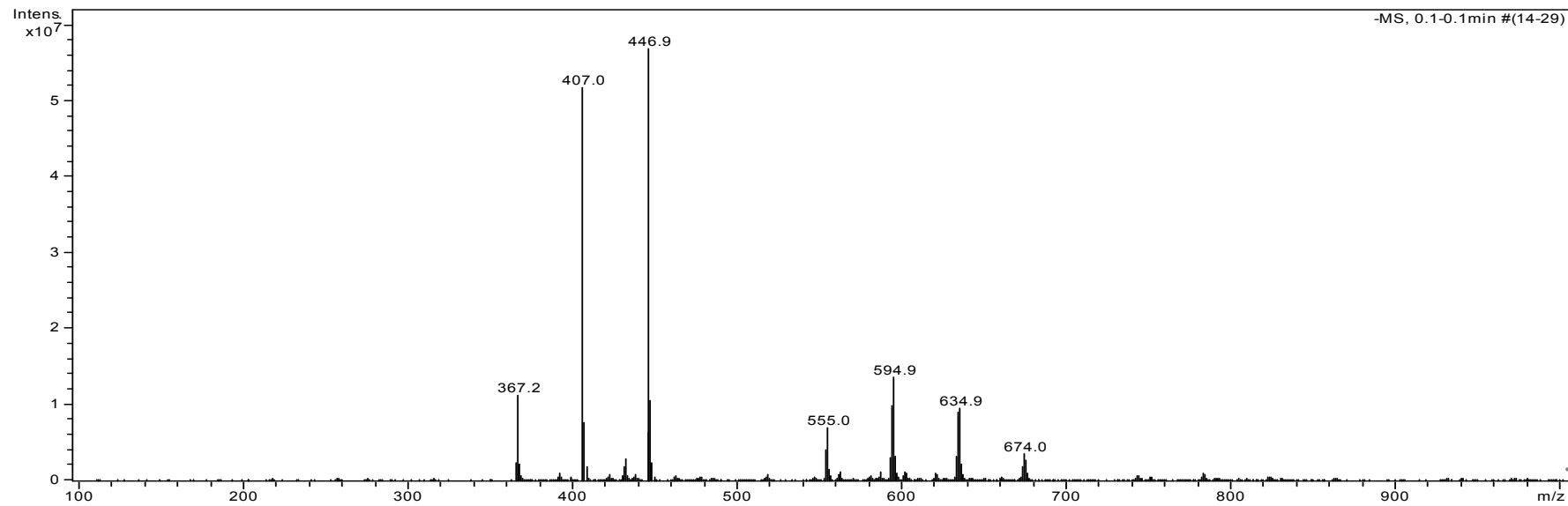
(A) 0 mM triethylamine



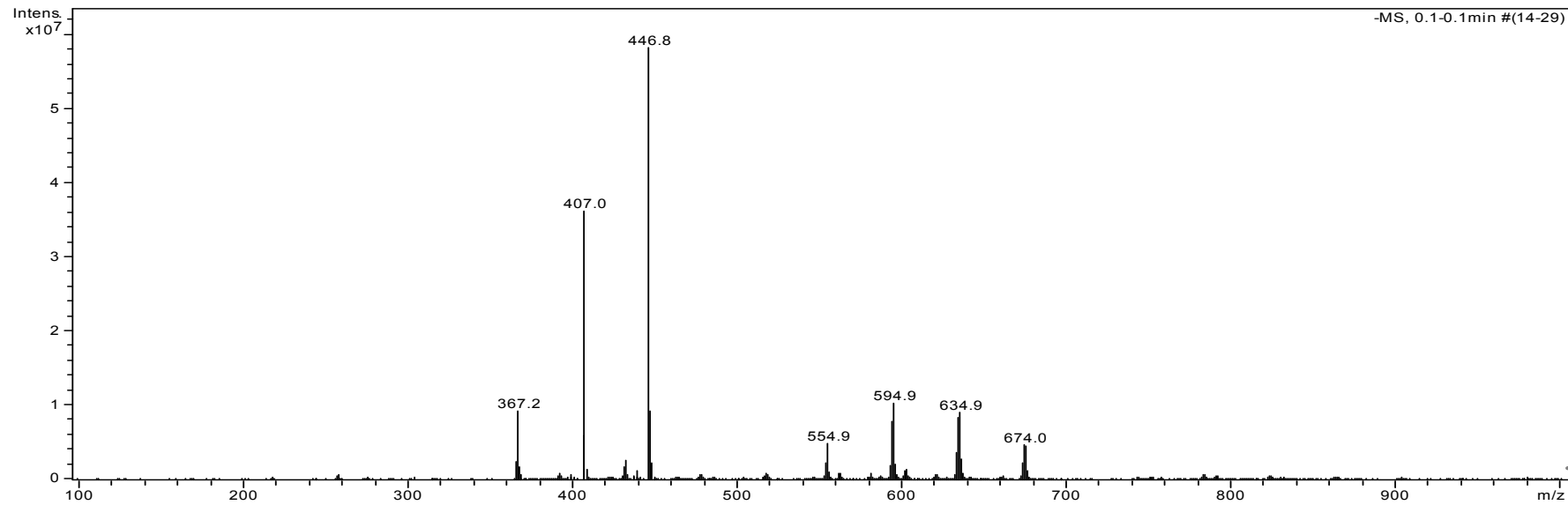
(B) 7.2 mM triethylamine



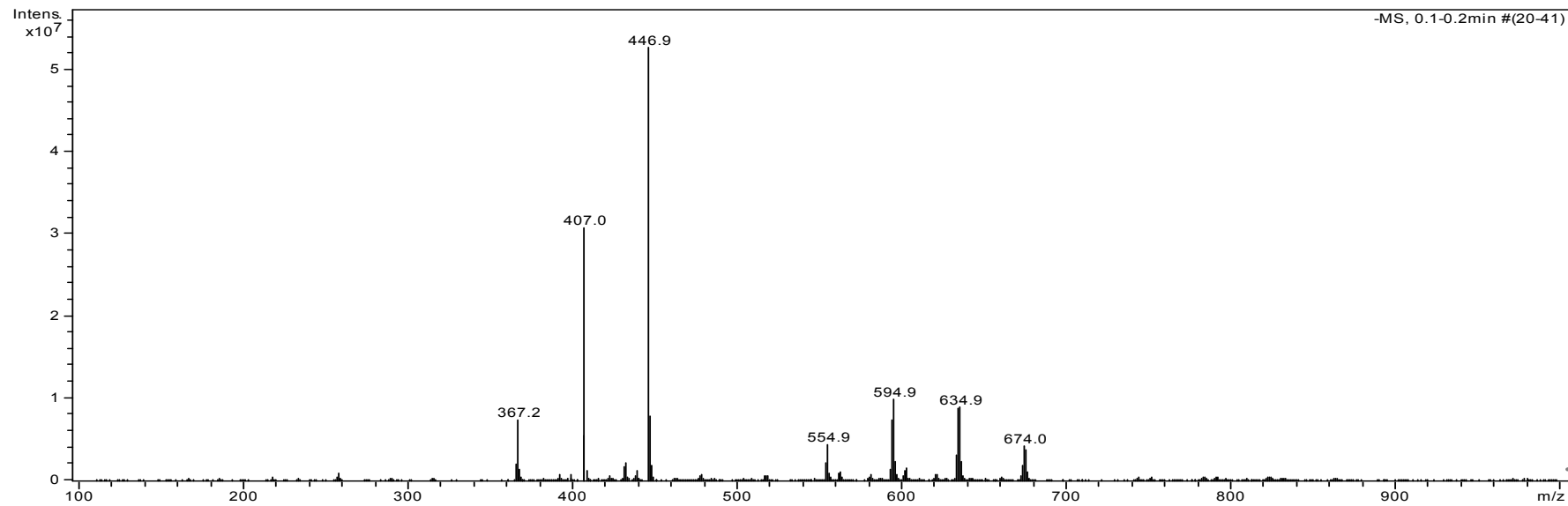
(C) 14.4 mM triethylamine



(D) 21.6 mM triethylamine



(E) 36 mM triethylamine



(F) 57.4 mM triethylamine

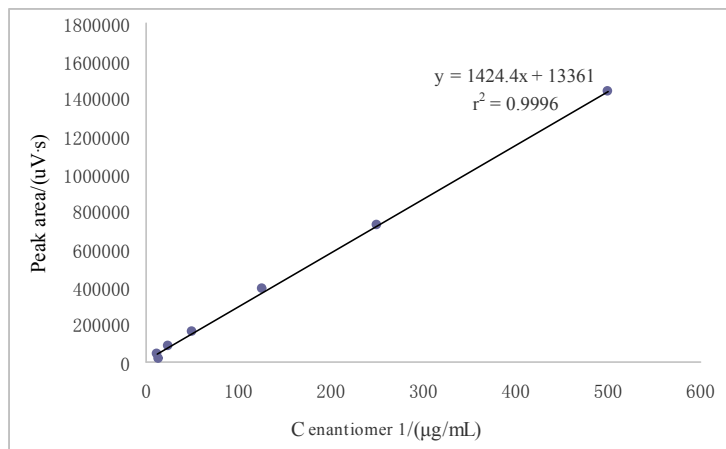
**Fig. S1** MS spectra of NACE buffers with different concentrations of triethylamine.

Buffer composition in addition to triethylamine is 40 mM L-sorbose and 100 mM boric acid in methanol.

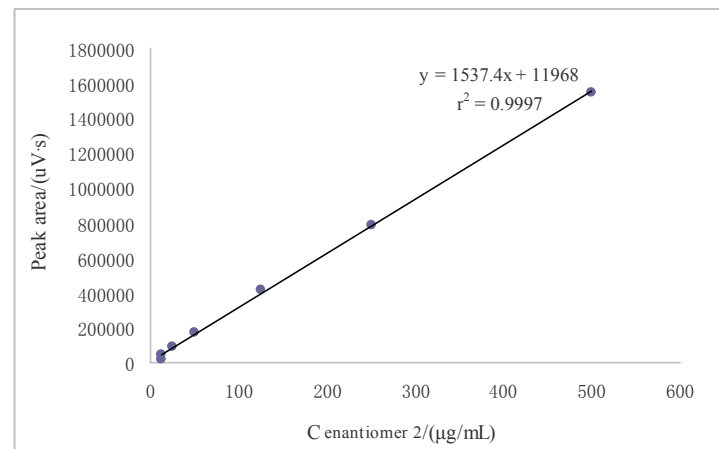
MS conditions: negative ESI-mode, spray voltage 3000V, nebulizer gas (N<sub>2</sub>) flow set at 15 psi, dry gas (N<sub>2</sub>) flow 5 L/min with a temperature of 325 °C.

**Table S1** The structural formulae of pseudo-molecular ions in the MS experiments.

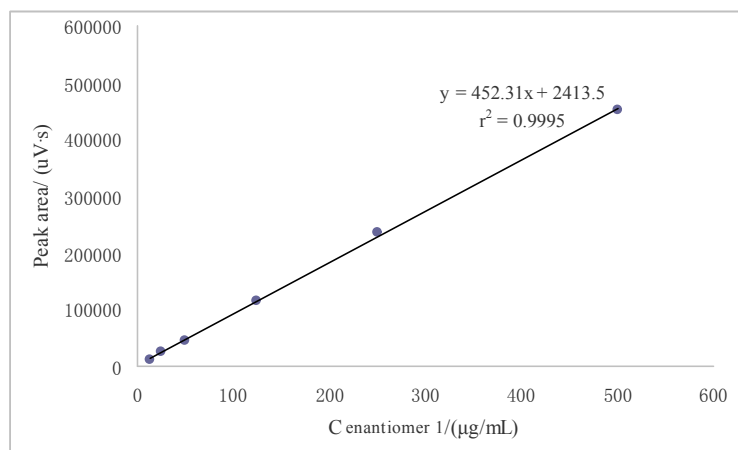
[M-H <sup>+</sup> ] <sup>-</sup>	m/z	Structural formula
[C <sub>12</sub> H <sub>20</sub> BO <sub>12</sub> -H <sup>+</sup> ] <sup>-</sup>	367	
[C <sub>13</sub> H <sub>21</sub> B <sub>2</sub> O <sub>13</sub> -H <sup>+</sup> ] <sup>-</sup>	407	
[C <sub>14</sub> H <sub>22</sub> B <sub>3</sub> O <sub>14</sub> -H <sup>+</sup> ] <sup>-</sup>	447	



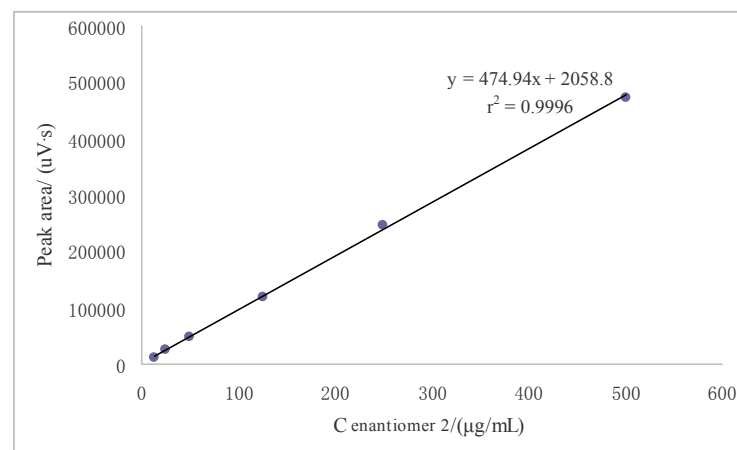
(A) The enantiomer 1 of clenbuterol



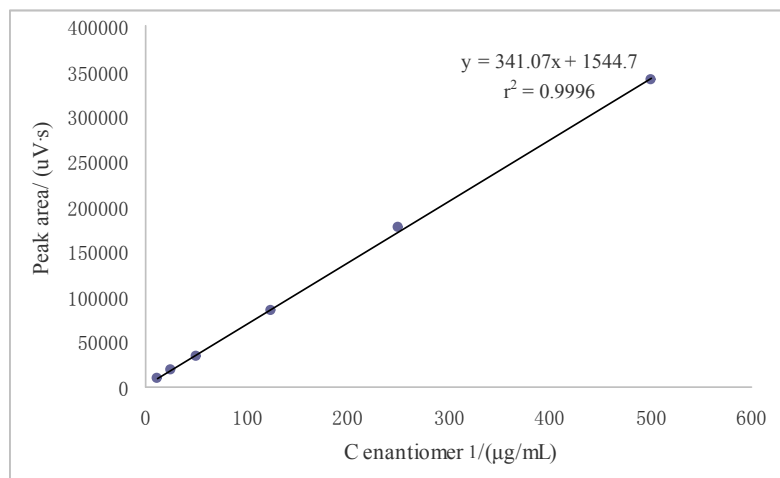
(B) The enantiomer 2 of clenbuterol



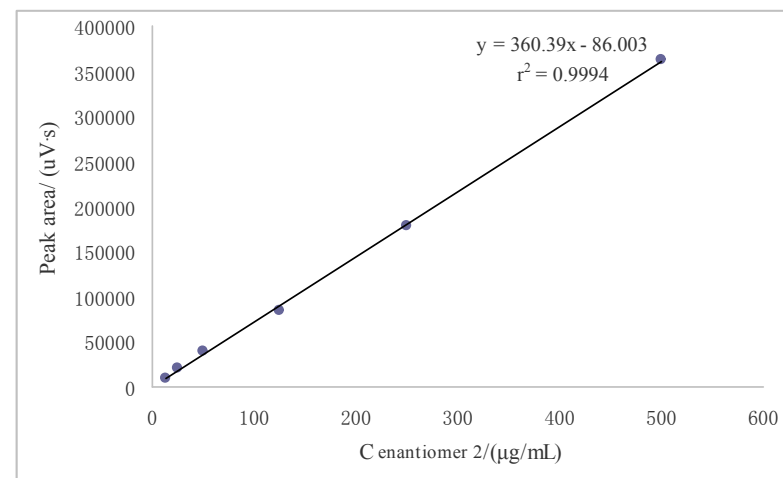
(C) The enantiomer 1 of esmolol



(D) The enantiomer 2 of esmolol



(E) The enantiomer 1 of metoprolol



(F) The enantiomer 2 of metoprolol

**Fig. S2** The calibration curves and linear equation of the NACE method using L-sorbose–boric acid complexes as the chiral selectors in NACE. NACE conditions are the same as in Fig. 4. The concentration of each enantiomer was calculated as a half of its racemate.