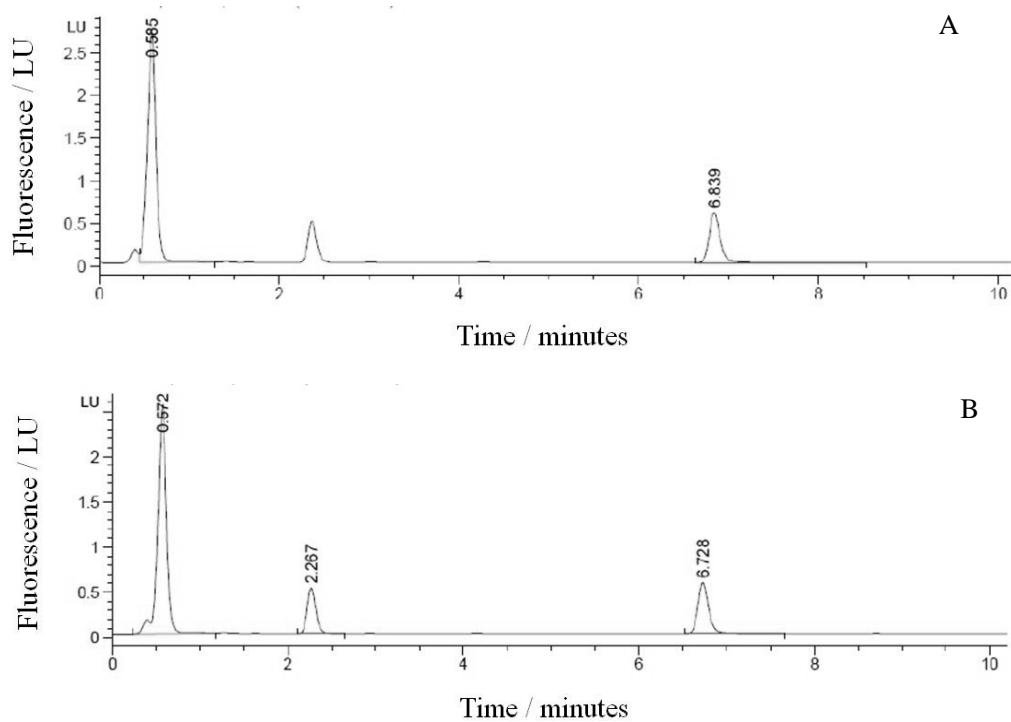
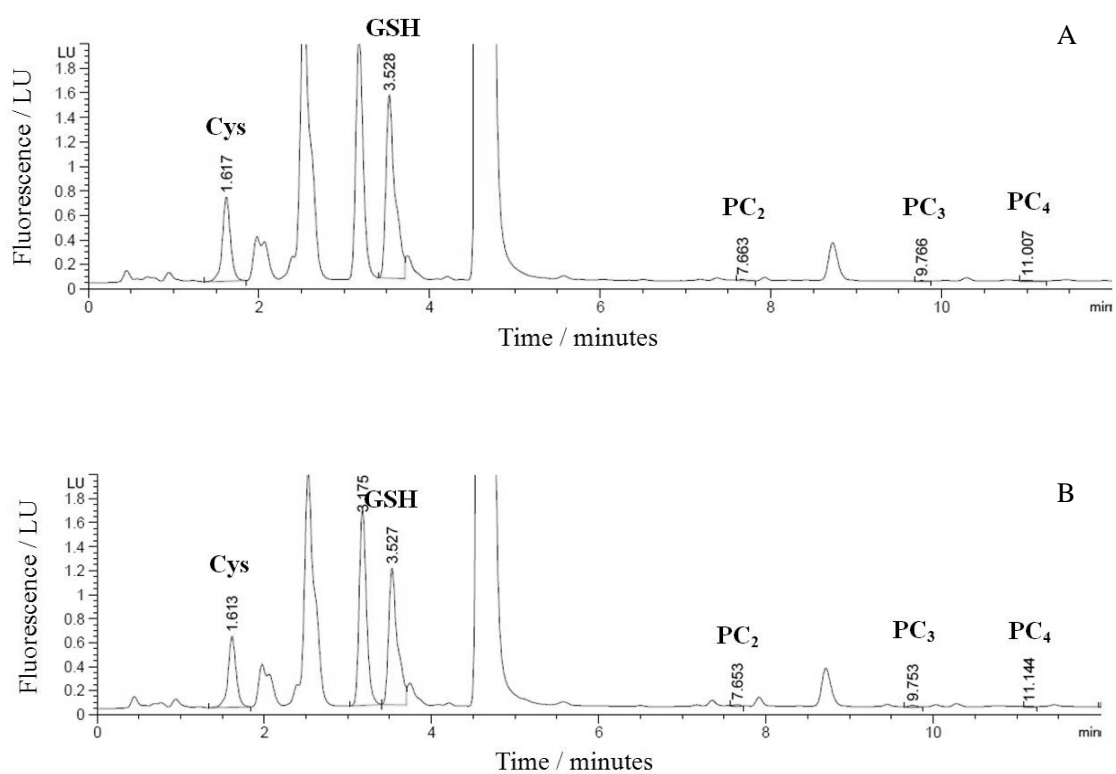


Electronic Supplementary Information

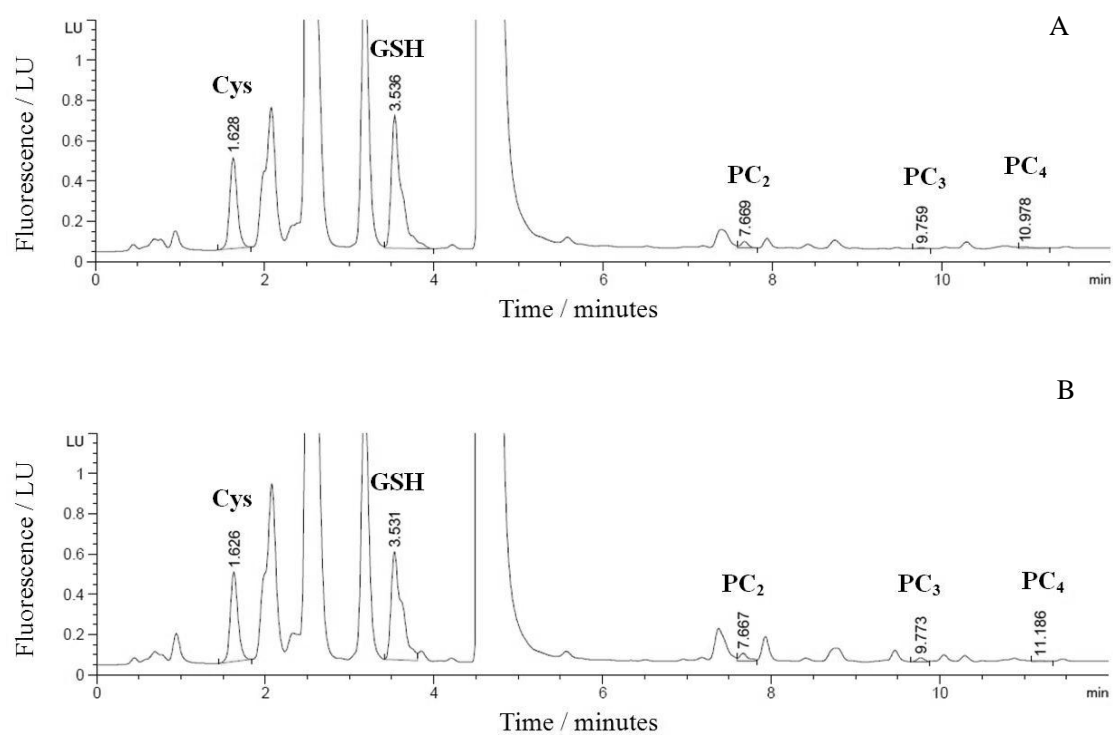
Supplemental Figures



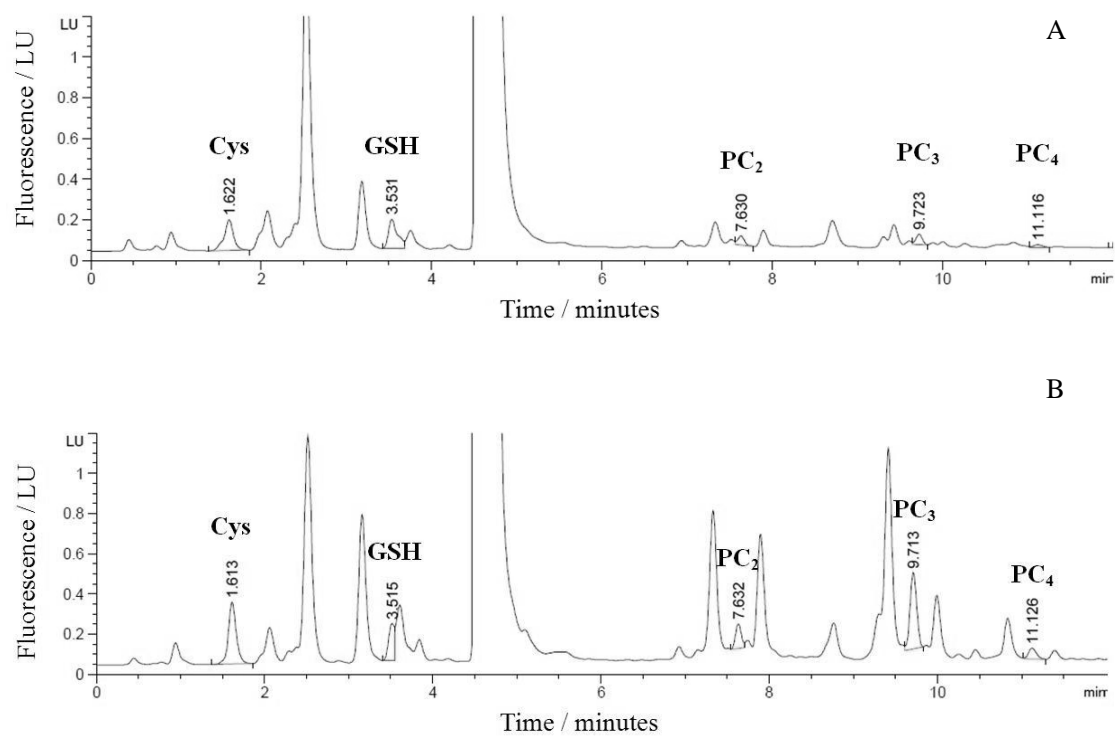
Supplemental Fig. 1. Chromatogram of a blank sample without (A) and with (B) the addition of TCEP (without mBBr derivatization).



Supplemental Fig. 2. Separation profiles of mBBr derivatized thiols in the control (A) and 1 μM Cd treated (B) rice leaf samples.



Supplemental Fig. 3. Separation profiles of mBBR derivatized thiols in the control (A) and 1 μ M Cd treated (B) rice stem samples.



Supplemental Fig. 4. Separation profiles of mBBr derivatized thiols in the control (A) and 1 μM Cd treated (B) rice root samples.

Supplemental table

Supplemental Table 1: Linearity and r^2 values for mixed thiol standards (1-20 $\mu\text{g}\cdot\text{mL}^{-1}$)

| Component name | Retention time | Linear regression | | |
|-----------------|----------------|-------------------|-----------|--------|
| | (min) | Slope | Intercept | r^2 |
| Cys | 2.068 | 0.4523 | 0.0311 | 0.9999 |
| GSH | 3.521 | 0.2256 | 0.0430 | 0.9997 |
| PC ₂ | 7.619 | 0.1643 | 0.0079 | 0.9999 |
| PC ₃ | 9.709 | 0.1314 | -0.0390 | 0.9999 |
| PC ₄ | 11.106 | 0.0645 | -0.0081 | 0.9997 |