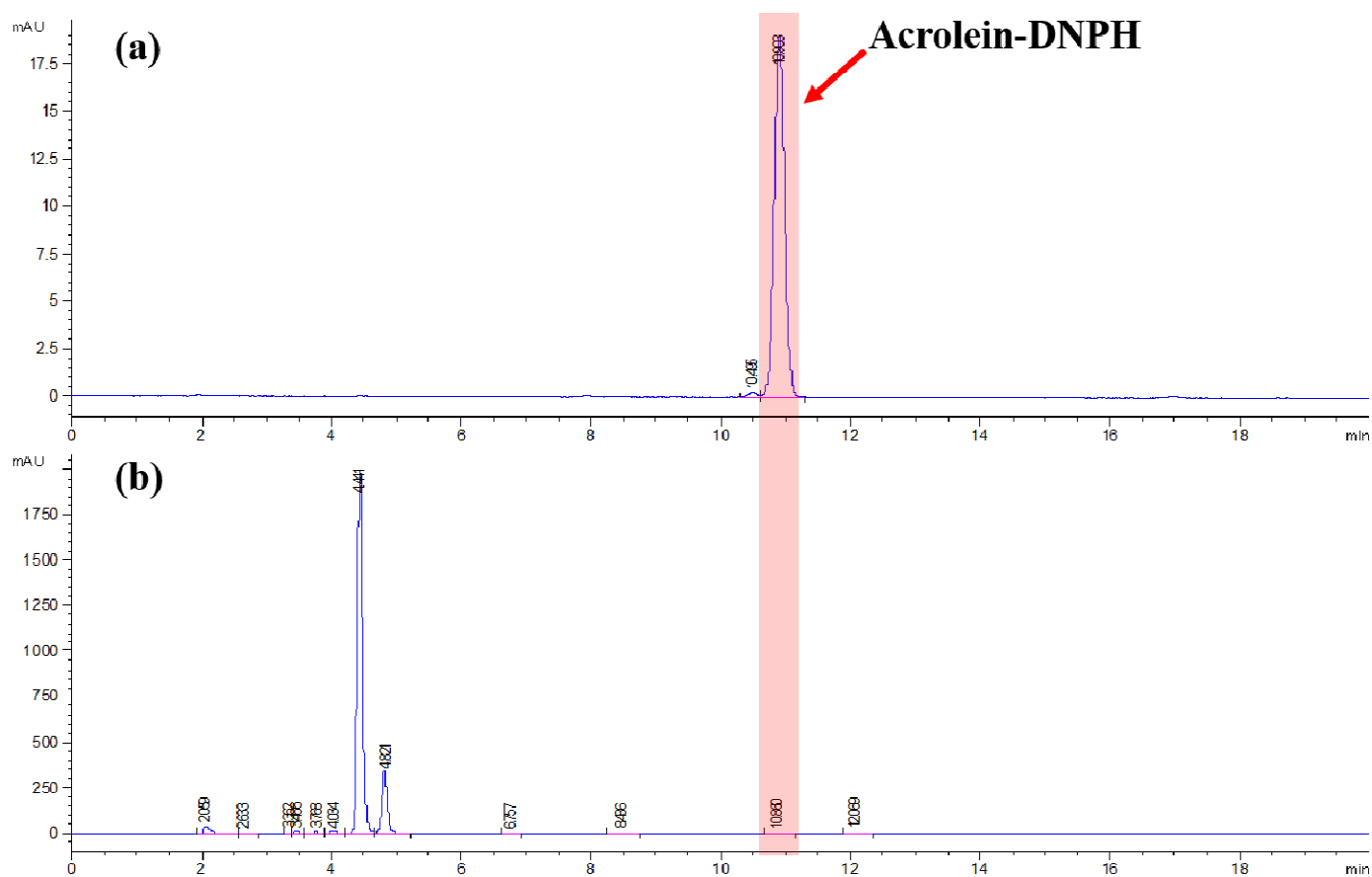


Supplementary Table S1. Comparison of 3-HPA bioconversion factors by *L. reuteri* strains

| Strain | Glycerol (mM) | 3-HPA (mM) | Yield (% mol/mol) | Reaction time (min) | Reference |
|--------------------------------|------------------|---------------|----------------------|------------------------|------------|
| <i>L. reuteri</i> ATCC 53608 | 400 | 235 | 58.8 | 45 | [1] |
| <i>L. reuteri</i> ATCC 53608 | 200 | 170 | 85.0 | 120 | [2] |
| <i>L. reuteri</i> 1063 | 250 | 140 | 56.0 | 120 | [3] |
| <i>L. reuteri</i> NRRL B-14171 | 150 | 80 | 53.3 | 480 | [4] |
| <i>L. reuteri</i> CG001 | 200 | 195 | 97.5 | 60 | [5] |
| <i>L. reuteri</i> DSM 20016 | 250 | 180 | 72.0 | 60 | [6] |
| <i>L. reuteri</i> BR201 | 500 | 378 | 75.6 | 60 | This study |



Supplementary Figure S1. Acrolein analysis HPLC chromatogram by DNPH derivatization. Acrolein-DNPH standard of 1 mg/L (a) and DNPH derivatized 3-HPA bioconversion sample (b).

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