

Table 4. Estimation of the upper concentration limits of selected metabolite pool sizes in trichomes

Metabolite quantities of single trichomes harvested by LHD were estimated using standard calibration curves ($n=10$ pools of cells). Abundant metabolites which exhibited differential accumulation in trichome cells compared to epidermal pavement or basal cells were chosen.

Metabolite	Upper concentration limit per single cell (pmol cell⁻¹)
Sucrose	~ 0.7
Trehalose	~ 0.7
<i>myo</i> -Inositol	~ 1.2
Citric acid	~ 1.1
Glutamic acid	~ 5.5
Sitosterol	~ 1.5
Octacosanoic acid	~ 0.5
Tetradecanoic acid	~ 2.1
Cholesterol	~ 0.5
Tetratriacontane	~ 1.1