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Quantitation of isoprenoids for natural rubber biosynthesis in natural rubber latex by liquid chromatography with tandem mass spectrometry

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Highlights:

- Dimethylallyl diphosphate (DMAPP) and farnesyl pyrophosphate (FPP) controlled the biosynthesis rate and the molecular weight of natural rubber.
- Quantitative analysis of DMAPP and FPP in rubber plants was rather difficult because of their inherently low content, high bioactivity and geographical/seasonal fluctuations.
- A rapid, nonradioactive method for quantitation of DMAPP and FPP in natural rubber latex by liquid chromatography with tandem mass spectrometry (LC–MS/MS) was established. And the method was proved to be accurate and