Application of FT-IR Spectroscopy as a Non-Invasive Multi-Attribute Monitoring Platform for Critical Quality Attributes in Monoclonal Antibodies

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Supplementary information

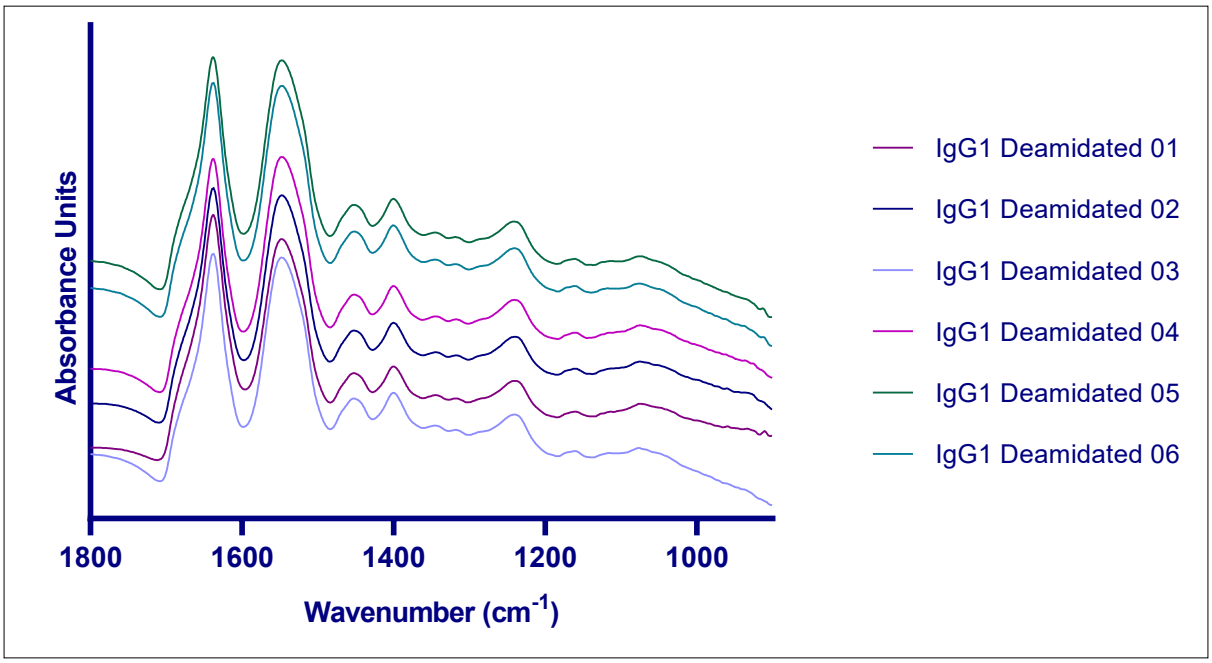

Figure 1 Repeatability assessment of FT-IR measurements of IgG1 deamidated showing consistent spectra across repeated acquisitions.

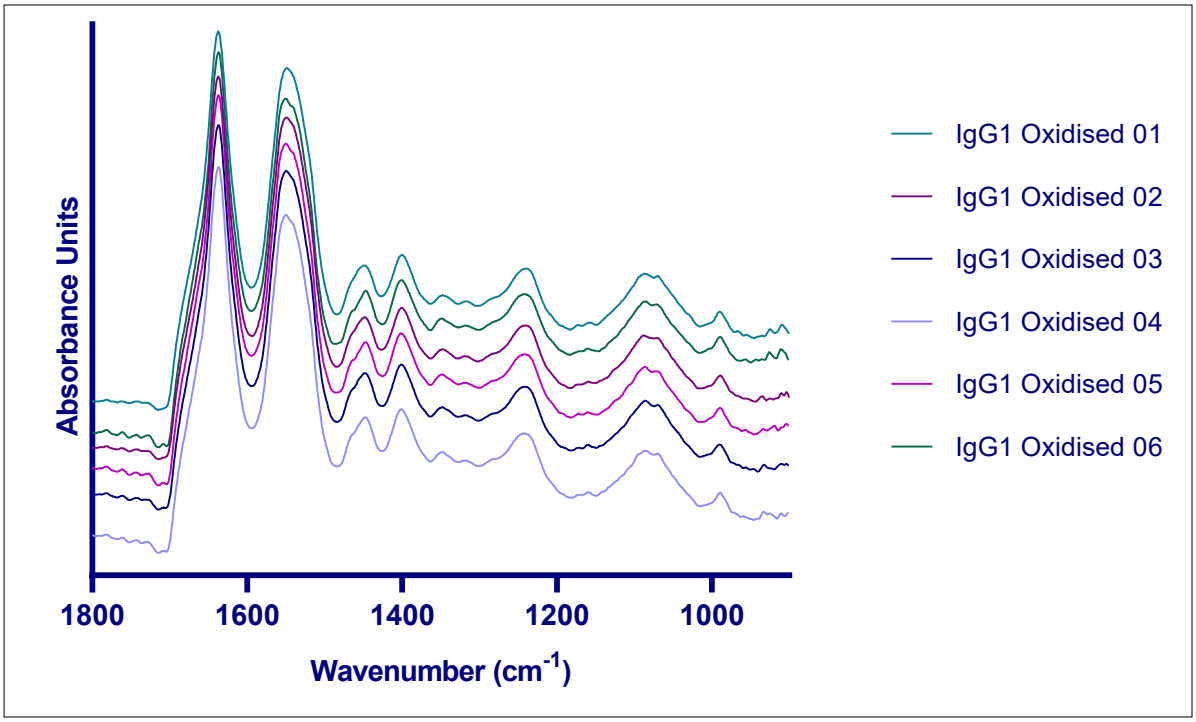

Figure 2 Repeatability assessment of FT-IR measurements of IgG1 oxidised showing consistent spectra across repeated acquisitions.

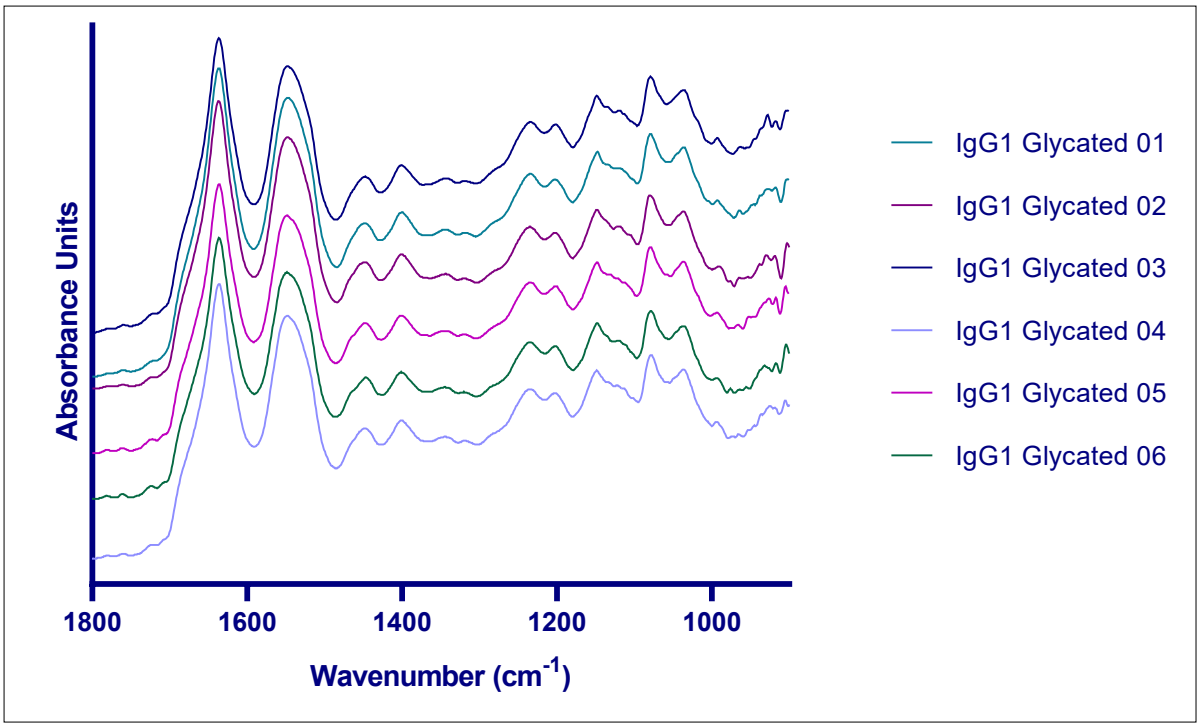

Figure 3 Repeatability assessment of FT-IR measurements of IgG1 glycated showing consistent spectra across repeated acquisitions.

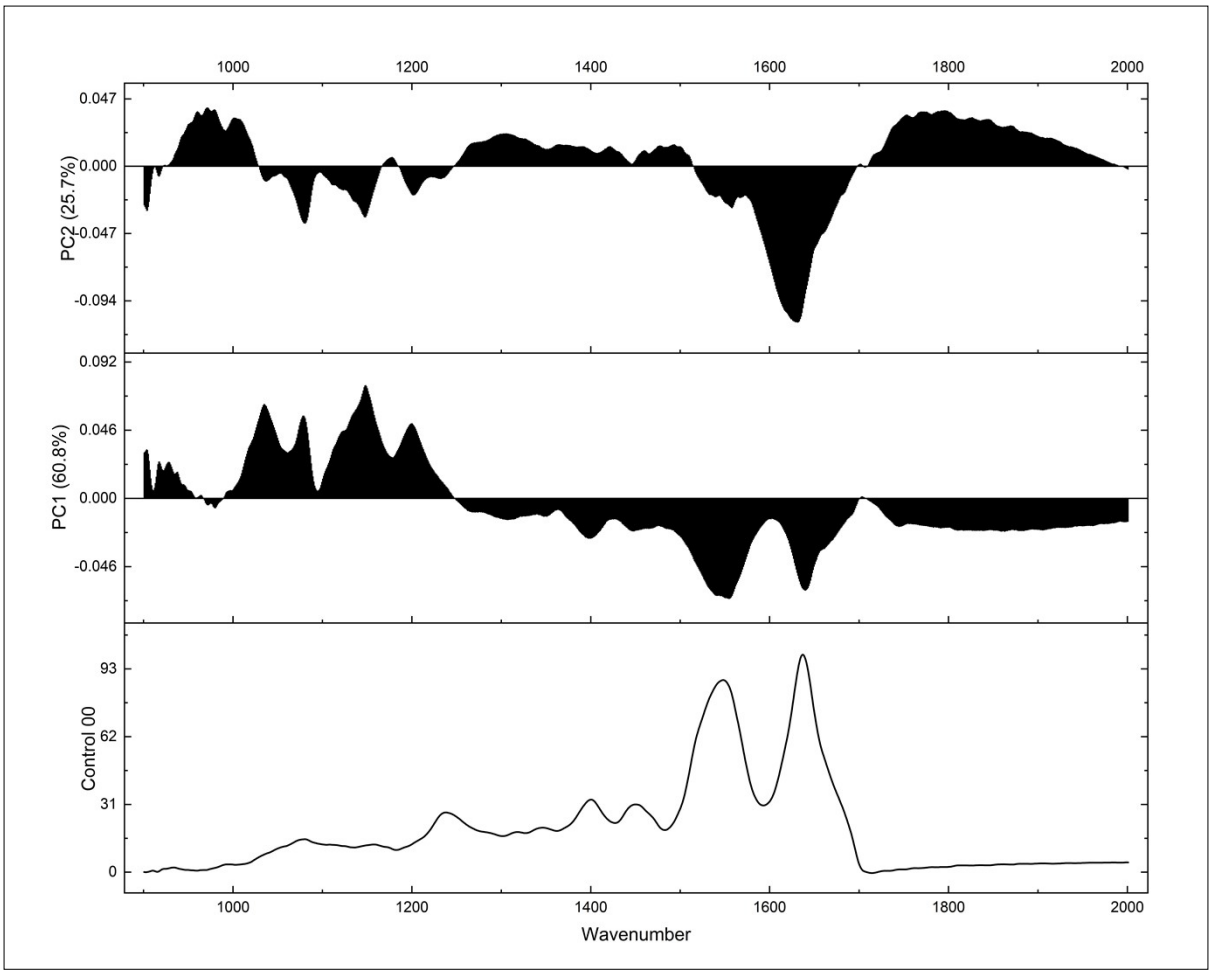

Figure 4: PCA loading plots (PC1 and PC2) correlated with the reference FT-IR spectrum of IgG1 samples, highlighting the spectral regions contributing to sample differentiation.

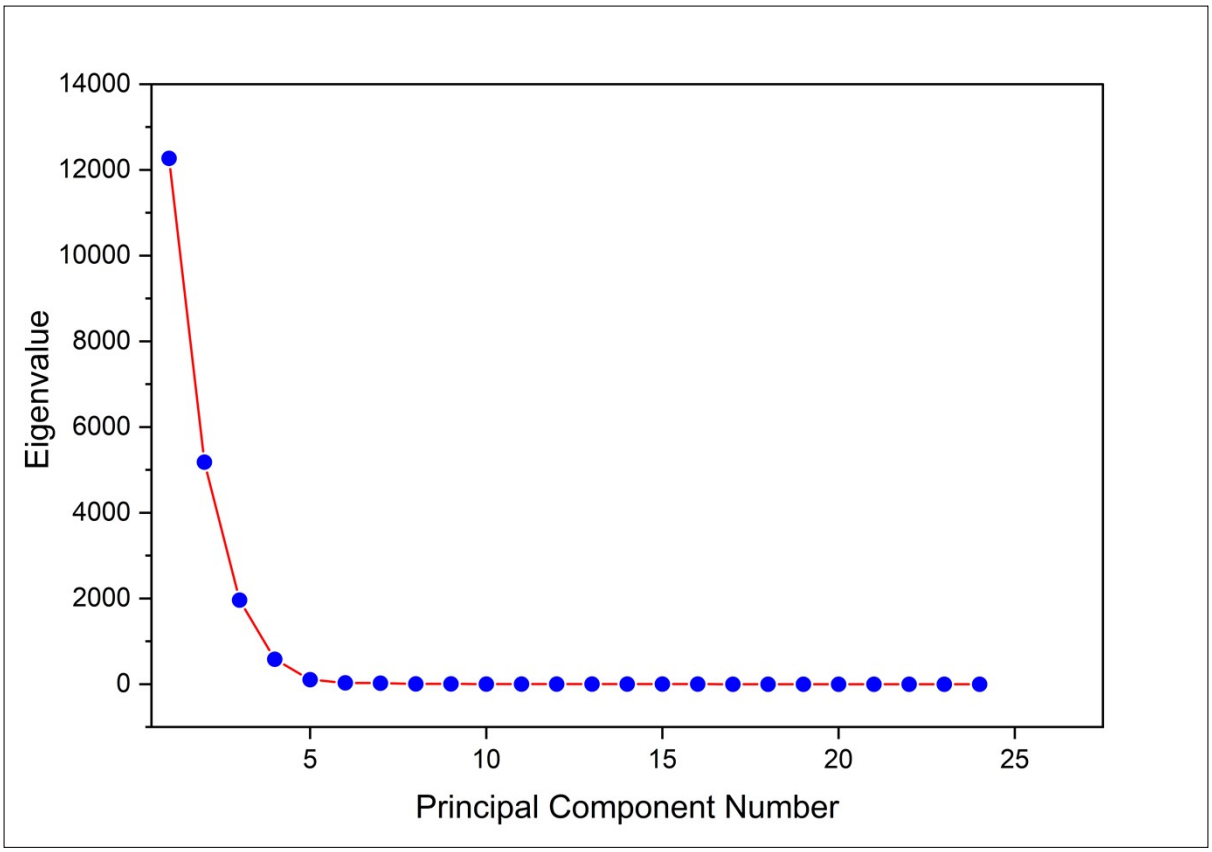

Figure 5: Scree plot illustrating the variance explained by principal component obtained from PCA analysis of FT-IR spectra of non-stressed and stressed IgG1 samples.