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Applications of near-infrared spectroscopy in the pharma and biopharma industries**Emil W Ciurczak**

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Near-Infrared spectroscopy is used in the synthesis and purification of APIs (active pharmaceutical ingredients) and biopharmaceutical fermentations. The technology is ideal because it has been designed to analyze complex mixtures. The speed of the technology allows rapid measurements of rapid synthetic reactions (of API) and has the computational

power to follow multiple ingredients in a bio-process: often up to a dozen nutrients and by-products, simultaneously. The talk will briefly cover the types of equipment used, some basic theory, and numerous examples of applications in both the Pharma and BioPharma industries.

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