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Evolution of an analytical strategy aimed at the determination of sialic acid in group B Streptococcus polysaccharide

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According to quality by design a method development strategy was applied to determination of sialic acid released by acidic hydrolysis in Group B Streptococcus polysaccharides, passing from a colorimetric assay to a HPAEC-PAD method, with the purpose of meeting the Optimum requirements of the Analytical Target Profile (ATP). The final implementation of the method was based on the use of a new Dionex column specifically designed for sialic acid determination, CarboPac PA20 Fast Sialic Acid 3 x 30 mm that, compared to the traditional column CarboPac PA1, improved the sensitivity and increased significantly the throughput of the analysis.

Biography

Sanna Coccone S is employed in the TD-Analytical Development Department of Glaxo Smith Kline Vaccines, and is engaged in the development and validation of new analytical methods. He completed his PhD in Medicinal Chemistry from the University of Siena and thereafter he dedicated his scientific interest to chemistry working in Siena Biotech and in Novartis Vaccines.

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