

APPLICATIONS FOR OUR POLARIMETERS ACCORDING TO INDUSTRIES

PHARMACEUTICAL INDUSTRY

Typical applications: <ul style="list-style-type: none"> determination of the concentration of sugar as an ingredient of pharmaceutical agents purity control and content determination determination of the stereochemical composition and mutarotation characterisation of new synthetic substances 	Analysed substances: sugar, amino acids and proteins, blood sera, vitamins, steroids, antibiotics, hormones, painkillers, amphetamines etc.	Special requirements: precision, compliance with standards	Standards: pharmacopoeias (USP, BP, JP, Ph. Eur.), GLP	Recommended polarimeters: P8000-T, P8000-P
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CHEMICAL INDUSTRY

Typical applications: <ul style="list-style-type: none"> purity control and concentration determination monitoring of chemical processes during the production of optically active substances characterisation tests in research laboratories reaction kinetic analyses 	Analysed substances: biopolymers, synthetic polymers, glycerinaldehydes, various hydrocarbons etc.	Special requirements: accurate temperature control at different temperatures, variability of the measurement methods, option of interval measurements	Standards: AOAC, OIML, ASTM, GLP	Recommended polarimeters: P8000-T, P8000-P
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FOOD AND BEVERAGE INDUSTRY

Typical applications: <ul style="list-style-type: none"> characterisation, quality and purity control of raw materials and end products determination of the sugar concentration in beverages and candies routine analysis with high sample throughput 	Analysed substances: sugar, lactic acid, starch (polysaccharide) in food and feed, aromas, lactose in milk, glucose in wine, sugar composition in honey etc.	Special requirements: fast measurement with easy handling, robust, acid-resistant measurement tubes	Standards: AOAC, OIML, ASTM, GLP	Recommended polarimeters: P8000-T, P8000-TF
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SUGAR INDUSTRY

Typical applications: <ul style="list-style-type: none"> determination of the sugar concentration in raw materials, preliminary, intermediate and end products monitoring of chemical processes, e.g. during the manufacture of invert sugar purity control 	Analysed substances: sugar cane, beet pulp, molasses, refined sugar, syrup, invert sugar etc.	Special requirements: availability of the international sugar scale, no need for maintenance	Standards: ICUMSA, GLP	Recommended polarimeters: P8000, P3000
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MANUFACTURERS OF AROMAS, FRAGRANCES AND ESSENTIAL OILS

Typical applications: <ul style="list-style-type: none"> quality control of raw materials and additives monitoring of the production of intermediate and end products 	Analysed substances: essential oils such as orange, lavender, lime and peppermint oil, glyceric acid, aromas and perfumes for the food and cosmetics industry etc.	Special requirements: high resistance to chemicals, availability of micro-cuvettes	Standards: Ph. Eur., AOAC, OIML, GLP	Recommended polarimeter: P8000-TF
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HOSPITALS AND PHARMACIES

Typical applications: <ul style="list-style-type: none"> incoming/outgoing goods inspection control of pharmaceutical products according to pharmacopoeias 	Analysed substances: pharmaceutical agents as well as raw materials and additives	Special requirements: robustness, easy handling, low price	Standards: pharmacopoeias (USP, BP, JP, Ph. Eur.), GLP	Recommended polarimeters: P1000-LED, P3000
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TRAINING IN THE INDUSTRY OR AT UNIVERSITIES

Use for practical exercises and experiments: <ul style="list-style-type: none"> kinetics of the cane sugar inversion mutarotation of glucose determination of the concentration of polysaccharides through amylolysis 	Special requirements: easy handling, low price	Standard: GLP	Recommended polarimeters: P1000-LED, P3000
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