

Polarimeter Standards



**SCHMIDT
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SCHMIDT + HAENSCH instruments comply with a multitude of international standards and norms. Depending on which standards are relevant to you, you can navigate our instrument portfolio according to applicable standards and norms.*

Or contact us directly! Our experts are happy to find or develop a solution tailored to your needs.

*standards and norms are subject to changes. Please speak to our instrument qualification team for specific requests on norm and standard updates: sales@schmidt-haensch.de

ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
21 CFR Part 11	Documentation and system validation of United States Food and Drug Administration (FDA) regulations	Polartronic® HX32, VariPol, Polartronic® and UniPol 2020 (with Aquisys 2)
AOAC 896.01	Lactose in Milk	Polartronic® V
AOAC 896.02	Sucrose in Sugars and Syrups	Saccharomat® V
AOAC 898.02	Physical Constants of 10 % Distillate of Lemon and Orange Oils	VariPol
AOAC 902.02	Sucrose in Vanilla Extract	Saccharomat® V
AOAC 906.03	Invert Sugar in Sugars and Syrups	Saccharomat® V
AOAC 920.139	Sucrose in Lemon, Orange, and Lime Extracts	VariPol
AOAC 920.142	Optical Rotation of Lemon and Orange Oils	VariPol
AOAC 920.182	Polarization (Direct) of Honey	Unipol 2020
AOAC 920.184	Sucrose in Honey	Unipol 2020
AOAC 920.188	Polarization of Maple Products	Polartronic® V
AOAC 920.189	Sucrose in Maple Products	Polartronic® V
AOAC 920.190	Sugars (Reducing) in Maple Products as Invert Sugar	Saccharomat® V
AOAC 920.191	Glucose (Commercial) in Maple Products	Saccharomat® V
AOAC 920.65	Nonsugar Solids (Sugar-Free Extract) in Wines	Unipol 2020

Can't find your international norm and standard? - To receive updates on current standards, please contact sales@schmidt-haensch.de



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
AOAC 920.65	Sucrose in Wine	Unipol 2020
AOAC 920.66	Commercial Glucose in Wine	Unipol 2020
AOAC 920.82	Sucrose in Cacao Products	Saccharomat® V
AOAC 920.83	Starch in Cacao Products	Polartronic® V
AOAC 920.96	Coating and Glazing Substances in Roasted Coffee	Unipol 2020
AOAC 921.03	Sugars (Reducing) in Plants	Saccharomat® V
AOAC 921.10	Oil (Rosin) in Oils and Fats	Polartronic® V
AOAC 925.05	Sucrose in Animal Feed	UniPol 2020
AOAC 925.33	Oils of Lemon and Orange in Extracts	VariPol
AOAC 925.35	Sucrose in Fruits and Fruit Products	Saccharomat® V
AOAC 925.37	Glucose (Commercial) in Fruits and Fruit Products Procedure	Polartronic® V
AOAC 925.42	Sugars (Reducing) Before Inversion in Food Dressings	Unipol 2020
AOAC 925.43	Sugars (Reducing) After Inversion in Food Dressings	Unipol 2020
AOAC 925.46	Sucrose in Sugars and Syrups	Saccharomat® V
AOAC 925.47	Sucrose in Sugars and Syrups	Saccharomat® V
AOAC 925.48	Sucrose in Sugars and Syrups	Saccharomat® V
AOAC 925.52	Sugars in canned vegetables	Saccharomat® V
AOAC 926.11	Oils of lemon, Orange, or Lime in oil-base flavours	VariPol
AOAC 926.13	Sucrose and Raffinose in Sugars and Syrups	Saccharomat® V
AOAC 926.14 & Surplus	Sucrose and Raffinose in Sugars and Syrups	Saccharomat® V
AOCS 926.18	Camphor in drugs	Polartronic® HX32
AOAC 929.09	Invert Sugar in Sugars and Syrups	Saccharomat® V



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
AOAC 930.32	Lactose in Process Cheese	Saccharomat® V
AOAC 930.35	Vinegars	Unipol 2020
AOAC 930.36	Sucrose in Sugars and Syrups	Saccharomat® V
AOAC 930.37	Corn (Glucose) Syrup in Sugars and Syrups	Saccharomat® V
AOAC 931.07	Glucose and Sucrose in Eggs Sugar Inversion Method	Saccharomat® V
AOAC 932.13 & Surplus	Levo-Malic Acid in Fruits and Fruit Products	VariPol
AOAC 932.14 & Surplus	Amphetamine Drugs	Polartronic® HX32
AOAC 933.04	Lactose in Milk Chocolate	Unipol 2020
AOAC 933.07	Malic acid (inactive) in fruits and fruit products	VariPol
AOAC 935.62	Glucose in sugars and syrups. Chemical methods	Saccharomat® V
AOAC 940.11	Sucrose in Cordials and Liqueurs	Saccharomat® V
AOAC 942.20	Sucrose in Sugar Beets	Saccharomat® V
AOAC 945.37	Starch in flour	Polartronic® V
AOAC 945.55	Sucrose in Gelatine	Saccharomat® V
AOAC 945.56	Loss on drying (moisture) in starch dessert powders	Polartronic® V
AOAC 945.67	Glucose in Corn Syrups and Dextrose Products	Saccharomat® V
AOAC 950.18	Malic acid (levo and inactive) in non-alcoholic beverages	Unipol 2020
AOAC 950.29	Sucrose in non-alcoholic beverages	Saccharomat® V
AOAC 950.30	Sugars (reducing) in non-alcoholic beverages	Unipol 2020
AOAC 950.31	Glucose (commercial) in non-alcoholic beverages	Unipol 2020
AOAC 965.31	Lemon juice	Unipol 2020



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
AOAC 968.19	Levo-malic acid in fruits and fruit products	Unipol 2020
AOAC 970.57	Sucrose in molasses. Polarimetric methods	Saccharomat® V
AOAC 975.14	Sugars in bread	Saccharomat® V
AOAC 975.43	Identification of RRR- or all-rac-alpha-Tocopherol in Drugs and Food or Feed Supplements	Polartronic® HX32
IUPAC-AOAC 986.19	Triglycerides in fats and oils	Polartronic® V
ASTM C1426-14	Standard Practices for Verification and Calibration of Polarimeters	Polartronic® V, VariPol, Unipol 2020
EHC Harmonised methods of the European Honey Commission 1997	Sugars Determination of specific rotation	Saccharomat® V
GS1/2/3/9-1	The Determination of the Polarisation of Raw Sugar by Polarimetry	Polartronic® V
ICUMSA GS1/2/3/9-1	Determination of Polarisation of Raw Sugar by Polarimetry - Official	Saccharomat® V, Purity Analyzer®
ICUMSA GS1/2/3-2	Polarisation of Raw Sugar without Wet Lead Clarification	Saccharomat® V, Purity Analyzer®
ICUMSA GS2/3-1	The Braunschweig Method for the Polarisation of White Sugar by Polarisation – Official (Reference) Method	Saccharomat® V, Purity Analyzer®
ICUMSA GS3-1	The Determination of the Polarisation of the Sugar Component of Powdered Sugars Containing Anti-Caking Agents – Official	Saccharomat® V, Purity Analyzer®
ICUMSA GS4/7-1	The Determination of Apparent Sucrose in Molasses by a Double Polarisation Method – Accepted	Saccharomat® V, Purity Analyzer®
ICUMSA GS5/7-1	Polarisation, Brix and Fibre in Cane and Bagasse by the Wet Disintegrator with Lead Subacetate Single Method	Saccharomat® V, Purity Analyzer®
ICUMSA GS6-1	The Determination of the Polarisation of Sugar Beet by the Macerator or Cold Aqueous Digestion Method using Lead Acetate as Clarifying Agent – Official	Saccharomat® V, Purity Analyzer®



ORGANIZATION	TITLE	SUGGESTED MEASURING DEVICE
ICUMSA GS6-3	Polarisation of Sugar Beet by the Macerator or Cold Aqueous Digestion and Aluminium Sulphate Single Method	Saccharomat® V, Purity Analyzer®
ICUMSA GS7-7	The Determination of the Pol (Polarisation) of Filter Cake by Polarimetry with Lead Subacetate – Accepted	Polartronic® V
ICUMSA GS7-31	The Determination of Pol by NIR Polarimetry and Brix for Sugarcane and Factory Product – Tentative	Saccharomat® V, Purity Analyzer®
ICUMSA SPS-1	Polarimetry and the International Sugar Scale	Polartronic® V
ICUMSA SPS-1SScale	Specification and Standard SPS - 1 (2017), Polarimetry and the International Sugar Scale	Saccharomat® V, Purity Analyzer®
OIML R 14	Polarimetric saccharimeters graduated in accordance with the ICUMSA International Sugar Scale	Saccharomat® V
Ph. Eur. 7th Edition-2.2.7	Optical rotation	Polartronic® HX32, VariPol
USP 781	Optical rotation	Polartronic® HX32, VariPol
Australian Standard K157	Australian Standards (AS) compliant	Polartronic® HX32, VariPol
AS 4185	Determination of sucrose content of sugar cane juices, sugars and sugar mill products	Polartronic® HX32, VariPol
EU Pharmacopoeia	Compliant with European pharmaceutical quality standards	Polartronic® HX32, VariPol
US Pharmacopoeia	Compliant with US-American pharmaceutical quality standards	Polartronic® HX32, VariPol
JP 17 2 56 Pharmacopoeia	Compliant with Japanese pharmaceutical quality standards	Polartronic® HX32, VariPol
Chinese Pharmacopoeia 2020	Compliant with Chinese pharmaceutical quality standards	Polartronic® HX32, VariPol