



**Organic Chemistry
is a combination
of craft and art...**

Syntal Pharma and Syntal Chemicals history

**The Family Company, created in 1982.
Focussed for innovative solutions**

Our most valuable asset is the perfectly integrated research and production team, which is highly skilled in conducting independent research, developing technologies and upscaling processes. Since 2006 the company is ISO 9001 certified for the manufacture of organic compounds and research. In 2015 we started cGMP compliant manufacture.

Production scale :

from 0,1 g to > 50kg from batch

The longest synthesis : 15 steps

Temp. range : from -80°C to +250°C

Pressure range: from 0,001 to 15 bar

We offer:

Custom manufacturing

Custom research

Upscaling

cGMP manufacturing

We specialize in:

Carbohydrates and derivatives

Imidazole derivatives

Long chain compounds

Heterocyclic compounds

Pre API's compounds

Our equipment:

Glass reactors with the volume from 1 ml to 200 l - ca. 50 items

Glass lined and inox reactors from 70l to 600l

Pressure reactors from 0,5 to 130 L

Rotation vacuum evaporators from 2 to 50L

Cryogenic and heating equipment, centrifuges, dryers.

Glovebox

Quality Control – UPLC, HPLC, GC-MS, HS-GC-FID, Karl-Fischer Titrator, UV-spectrometer



**Full range of
jacketed glass
reactors.**

**Volumes: 10, 20, 30,
50, 100 and 200
litres.**









Autoclav:

- **Pressure up to 15 bars**
- **Volume 130 litres**



Glovebox for reactions without access of moisture and oxygen



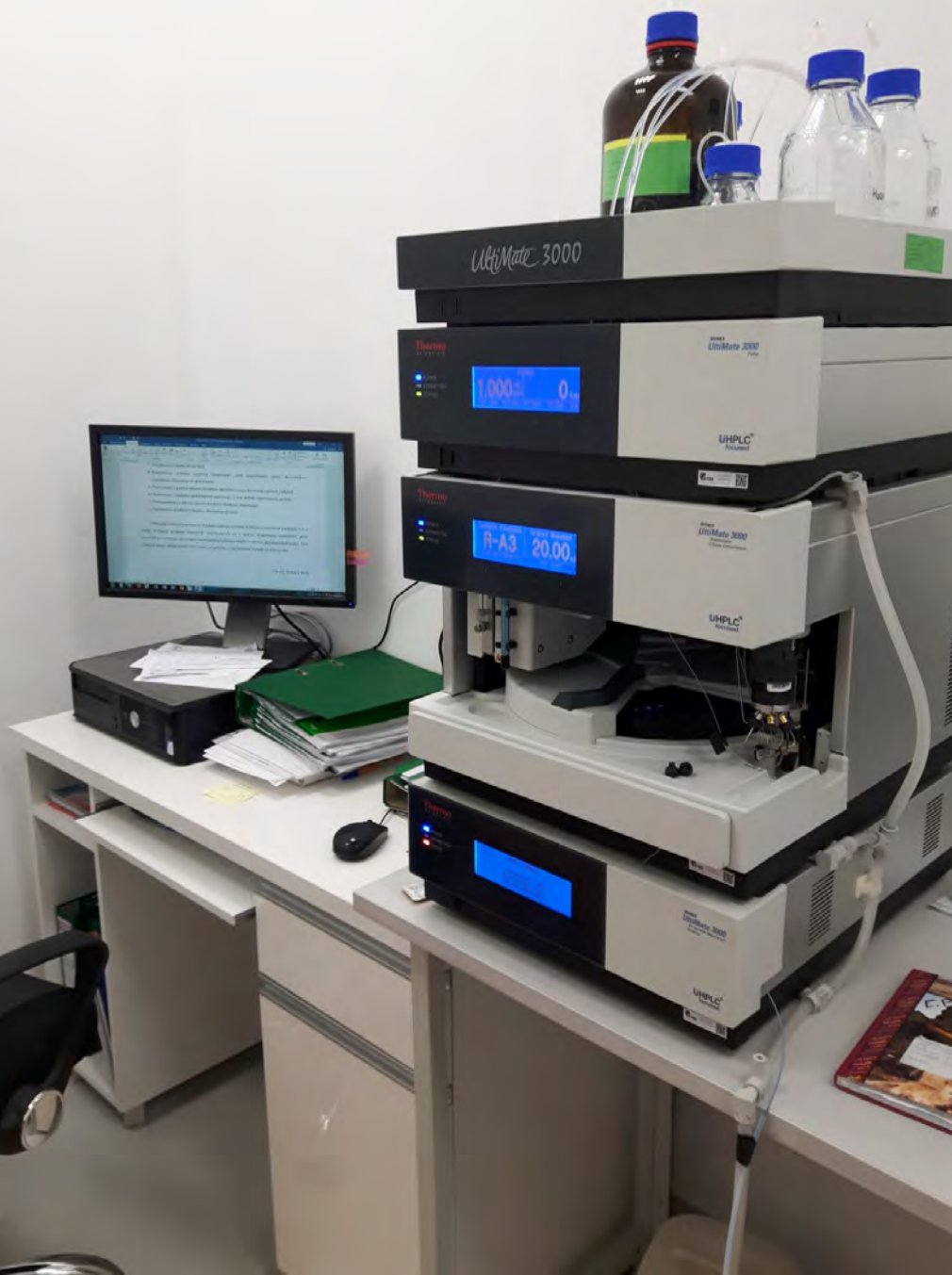
Rotary evaporators





Clean room facility





Analytics:

**Thermo Scientific Ultimate 3000
UHPLC chromatograph with UV
detector**

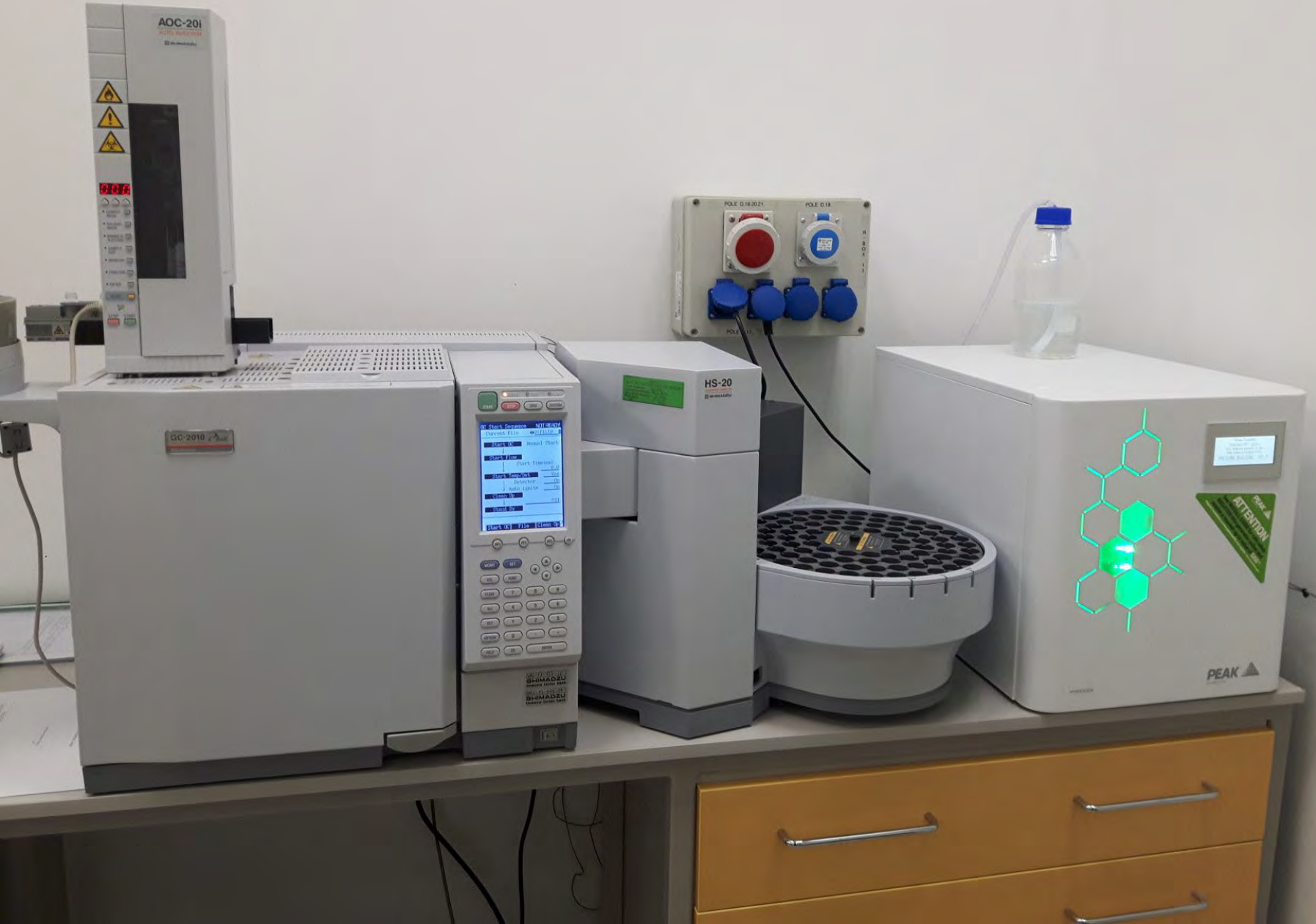
**Shimadzu GC-2010 Gas
chromatograph with FID detector
and headspace sampler**

**Perkin-Elmer TurboMass XL gas
chromatograph with FID and Mass
detectors,**

Jenway 7315 spectrophotometer

Mettler DL18 KF titrator

**Acces to VARIAN 600MHz NMR
apparatus located on Silesian
University of Technology**





95% of our manufacturing goes for export to:



Argentina



Australia



Austria



Belgium



Canada



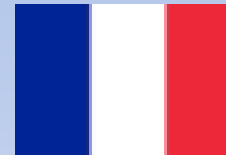
China



Czech Rep



Estonia



France



Germany



Italy



Israel



Japan



UK



USA



Singapore



Spain



Switzerland

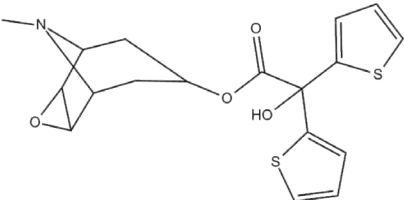
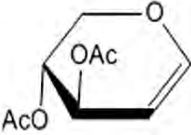
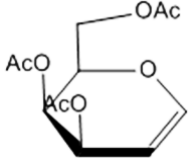
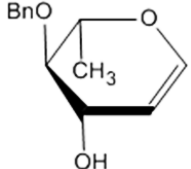
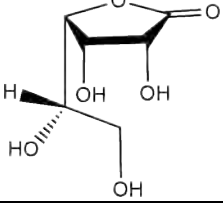
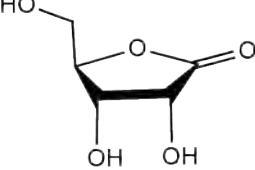
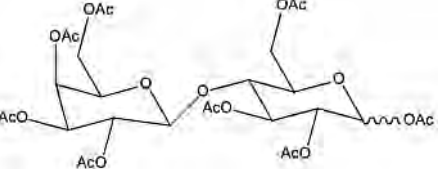


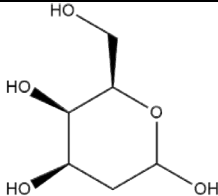
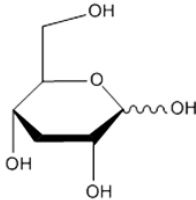
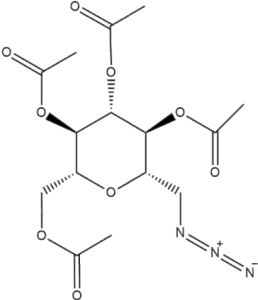
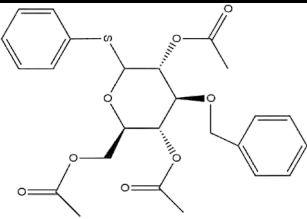
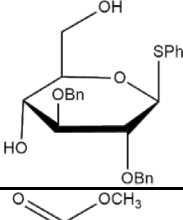
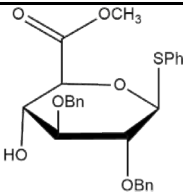
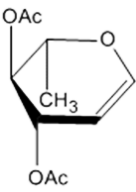
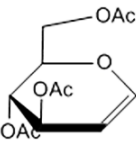
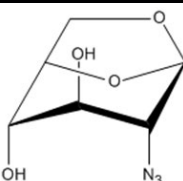
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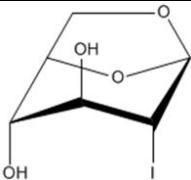
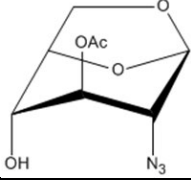
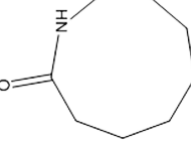
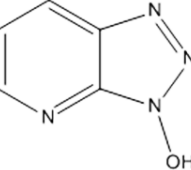
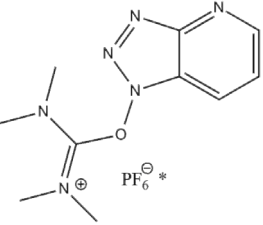
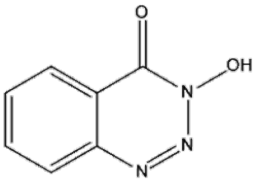
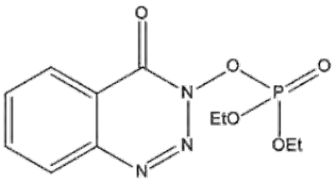
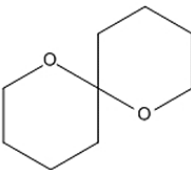
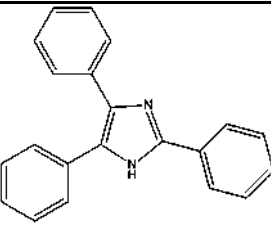
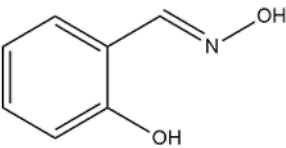


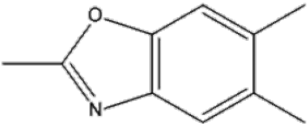
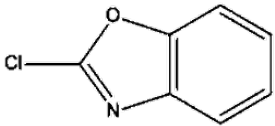
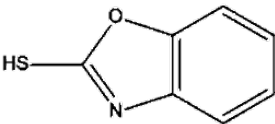
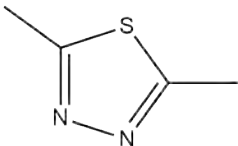
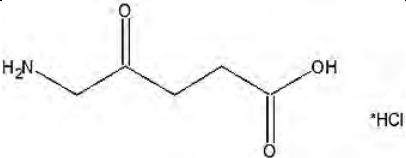
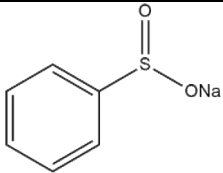
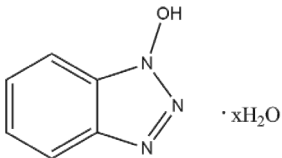
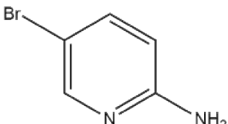
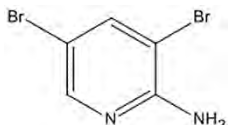
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 Fax.: +48 (32) 270 82 37
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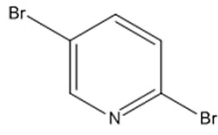
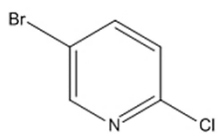
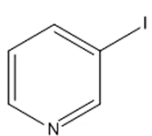
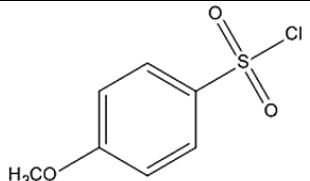
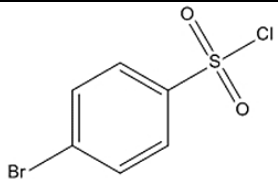
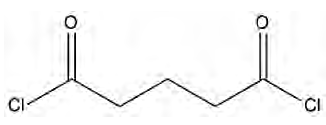
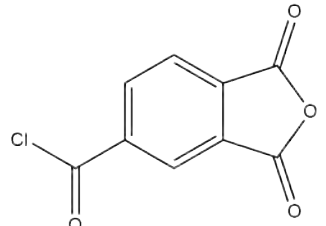
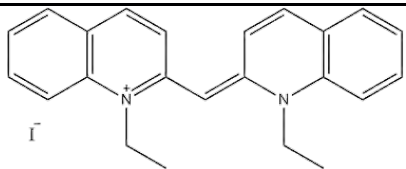
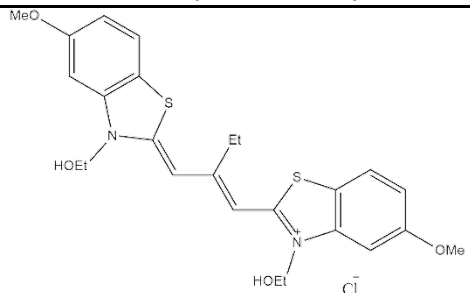
Products catalogue

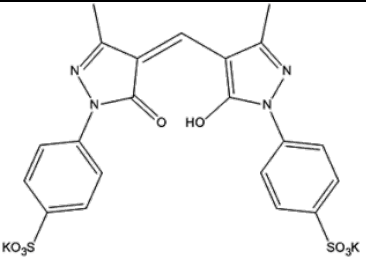
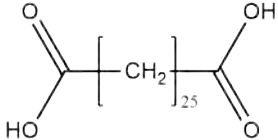
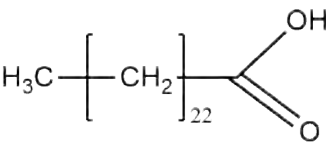
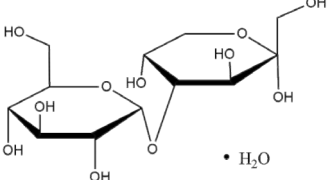
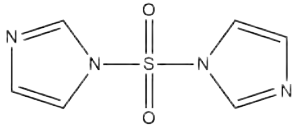
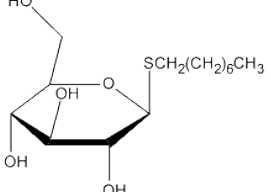
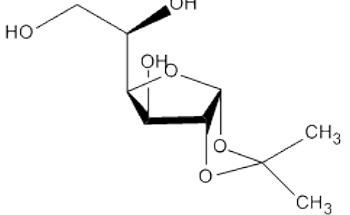
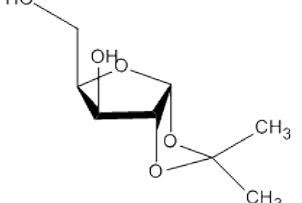
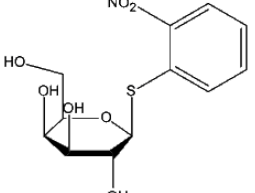
STRUCTURE	FORMULA [CAS-No.]	NAMES	PARAMETERS
	C ₁₈ H ₁₉ NO ₄ S ₂ [136310-64-0] F.W. 377,48	SCOPINE-2,2-DITHIENYL GLYCOLATE	Assay: min. 99.5% for pharmaceutical use
	C ₉ H ₁₂ O ₅ [3152-43-0] F.W. 200,19	3,4-DI-O-ACETYL-D-XYLAL	Assay: min. 98%
	C ₁₂ H ₁₆ O ₇ [4098-06-0] F.W. 272,25	3,4,6-TRI-O-ACETYL-D- GALACTAL	Assay: min. 98%
	C ₁₃ H ₁₆ O ₃ [117249-16-8] F.W. 220,26	4-O-BENZYL-L-RHAMNAL	Assay: min. 98%
	C ₆ H ₁₀ O ₆ [22430-23-5] F.W. 178,14	L-MANNOIC ACID-1,4-LACTONE	Assay: min. 99%
	C ₅ H ₈ O ₅ [5336-08-3] F.W. 148,11	D-RIBONIC ACID-1,4-LACTONE	Assay: min. 97%
	C ₂₈ H ₃₈ O ₁₉ [6291-42-5] F.W. 678,59	OCTA-O-ACETYL-D-LACTOSE	Assay: min. 98%

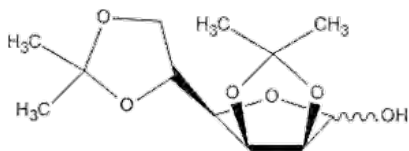
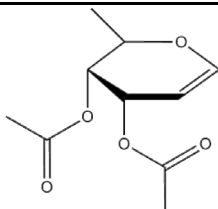
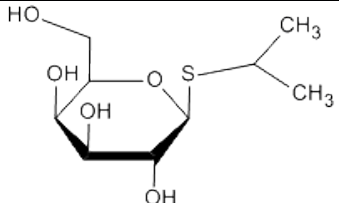
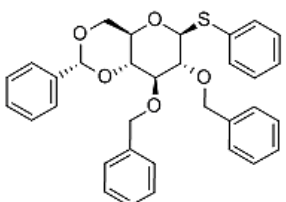
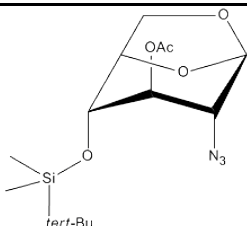
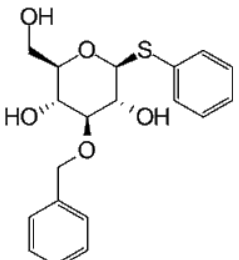
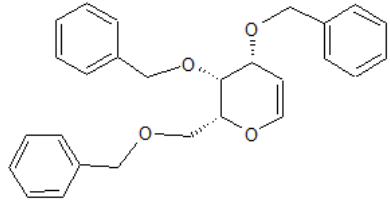
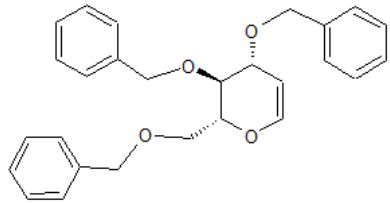
	<p>$C_6H_{12}O_5$</p> <p>[1949-89-9]</p> <p>F.W. 164,16</p>	2-DEOXY-D-GALACTOSE	Assay: min. 98%
	<p>$C_6H_{12}O_5$</p> <p>[2490-91-7]</p> <p>F.W. 164,12</p>	3-DEOXY-D-GLUCOSE	Assay: min. 97%
	<p>$C_{14}H_{19}N_3O_9$</p> <p>[13992-25-1]</p> <p>F.W. 373,32</p>	2,3,4,6-TETRA-O-ACETYL- β -D-GLUCOPYRANOSYL AZIDE	Assay: min. 99% m.p.: 127÷128°C
	<p>$C_{25}H_{28}O_8S$</p> <p>[158198-55-1]</p> <p>F.W. 488,55</p>	PHENYL 2,4,6-TRI-O-ACETYL-3-O-BENZYL-1-THIO- β -D-GLUCOPYRANOSIDE	Assay: min. 97%
	<p>$C_{26}H_{28}O_5S$</p> <p>[129081-01-2]</p> <p>F.W. 452</p>	PHENYL 2,3-DI-O-BENZYL- β -D-THIOGLUCOPYRANOSIDE	Assay: min. 97%
	<p>$C_{27}H_{28}O_6S$</p> <p>[819798-56-6]</p> <p>F.W. 480,57</p>	METHYL (PHENYL 2,3-DI-O-BENZYL-1-THIO- β -D-GLUCOPYRANOSIDE) URONATE	Assay: min. 95%
	<p>$C_{10}H_{14}O_5$</p> <p>[34819-86-8]</p> <p>F.W. 214,22</p>	3,4-DI-O-ACETYL-6-DEOXY-L-GLUCAL	Assay: min. 99% b.p.: 68÷69 °C/ 0.06 mmHg
	<p>$C_{12}H_{16}O_7$</p> <p>[2873-29-2]</p> <p>F.W. 272,25</p>	3,4,6-TRI-O-ACETYL-D-GLUCAL	Assay: min. 99% m.p.: 50÷52°C
	<p>$C_6H_9N_3O_4$</p> <p>[67546-20-7]</p> <p>F.W. 187,15</p>	1,6-ANHYDRO-2-AZIDO-2-DEOXY- β -D-GLUCOPYRANOSE	Assay: min. 98% m.p.: 124÷127°C

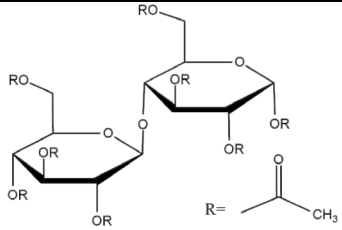
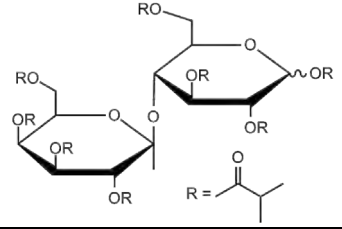
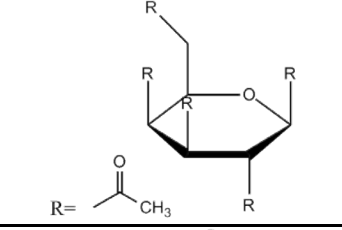
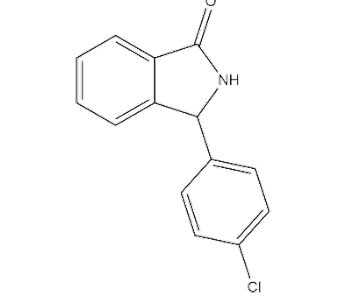
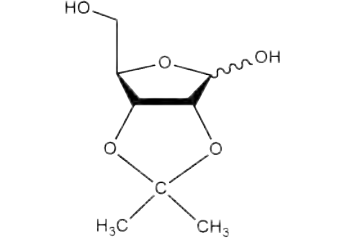
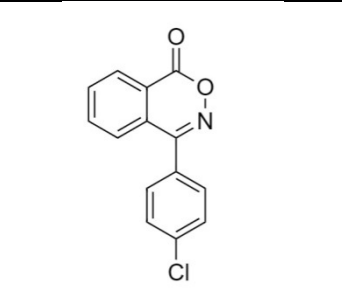
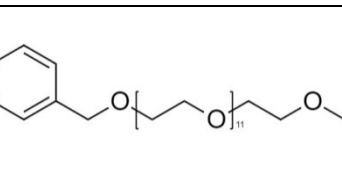
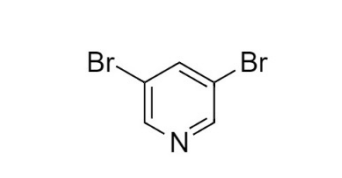
	C₆H₉IO₄ [139437-39-1] F.W. 272.03	1,6-ANHYDRO-2-DEOXY-2-iodo-beta-D-GLUCOPYRANOSE	Assay: min. 97%
	C₈H₁₁N₃O₅ [87326-68-9] F.W. 229.19	1,6-ANHYDRO-3-O-ACETYL-2-AZIDO-2-DEOXY-beta-D-GLUCOPYRANOSE	Assay: min. 97%
	C₈H₁₅NO [935-30-8] F.W. 141,21	CAPRYLOLACTAM	Assay min. 99%
	C₅H₄N₄O [39968-33-7] F.W. 136.11	1-HYDROXY-7-AZABENZOTRIAZOLE	Assay: min. 99% m.p.: 214÷216°C(dec.)
	C₁₀H₁₅F₆N₆OP [148893-10-1] F.W. 380.23	O-HATU O-(7-AZABENZOTRIAZOL-1-YL)-N,N,N',N'-TETRAMETHYLURONIUM HEXAFLUOROPHOSPHATE	Assay: min. 95% (¹ HNMR) m.p.: 143÷147°C
	C₇H₅N₃O₂ [28230-32-2] F.W. 163.13	3-HYDROXY-1,2,3-BENZOTRIAZIN-4(3H)-ONE	Assay: min. 98% m.p.: 186÷188°C
	C₁₁H₁₄N₃O₅P [165534-43-0] F.W. 299.22	DEPBT 3-(DIETHOXYPHOSPHORYLOXY)-1,2,3-BENZOTRIAZIN-4(3H)-ONE	Assay: min. 98% m.p.: 72÷74.5°C
	C₉H₁₆O₂ [180-84-7] F.W. 156.22	1,7-DIOXASPIRO[5.5]UNDECANE	Assay: min. 97% b.p.: 77÷79°C/13 Torr
	C₂₁H₁₆N₂ [484-47-9] F.W. 296.37	LOPHINE 2,4,5-TRIPHENYLMIDAZOLE	Assay: min. 98% m.p.: 275÷278°C
	C₇H₇NO₂ [94-67-7] F.W. 137.14	SALICYLALDOXIME	Assay: min. 98% m.p.: 56÷58°C

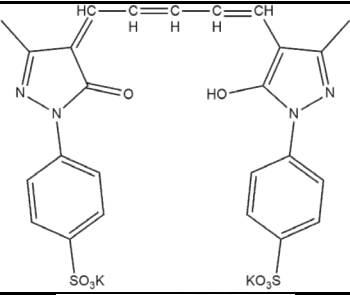
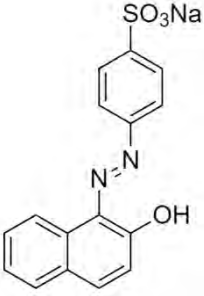
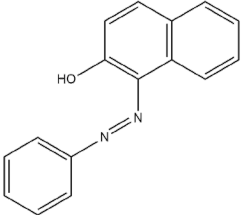
$\text{CH}_3(\text{CH}_2)_{30}\text{CH}_3$	$\text{C}_{32}\text{H}_{66}$ [544-85-4] F.W. 450.87	DOTRIACONTANE	Assay: min. 98% m.p.: 68÷70°C
$\text{CH}_3(\text{CH}_2)_{34}\text{CH}_3$	$\text{C}_{36}\text{H}_{74}$ [630-06-8] F.W. 506.97	HEXATRIACONTANE	Assay: min. 98%
	$\text{C}_{10}\text{H}_{11}\text{NO}$ [19219-98-8] F.W. 161.20	2,5,6-TRIMETHYL- BENZOXAZOLE	Assay: min. 99% m.p.: 93÷94°C
	$\text{C}_7\text{H}_4\text{ClNO}$ [615-18-9] F.W. 153.57	2-CHLOROBENZOXAZOLE	Assay: min. 99%
	$\text{C}_7\text{H}_5\text{NOS}$ [2382-96-9] F.W. 151.19	2-MERCAPTOBENZOXAZOLE	Assay: min. 98%
	$\text{C}_4\text{H}_6\text{N}_2\text{S}$ [27464-82-0] F.W. 114.17	2,5-DIMETHYL-1,3,4- THIADIAZOLE	Assay: min. 99% m.p.: 61÷63°C
	$\text{C}_5\text{H}_9\text{NO}_3 \times \text{HCl}$ [5451-09-2] F.W. 167.59	5-AMINOLEVULINIC ACID HYDROCHLORIDE	Assay: min. 98% m.p.: ~150°C(dec.)
	$\text{C}_6\text{H}_5\text{O}_2\text{SNa}$ [873-55-2] F.W. 164.16	BENZENESULFINIC ACID SODIUM SALT	Assay: min. 98% Na_2SO_4 :max. 2%
	$\text{C}_6\text{H}_5\text{N}_3\text{OxH}_2\text{O}$ [123333-53-9] F.W. 135.12 (anhydrous basis)	1-HYDROXYBENZOTRIAZOLE HYDRATE	Assay: min. 99% (anhydrous form) m.p.: 156÷158°C dec. (from safety reasons material contains 20% of water)
	$\text{C}_5\text{H}_5\text{BrN}_2$ [1072-97-5] F.W. 173.01	2-AMINO-5-BROMOPYRIDINE	Assay: min. 99% m.p.: 138÷139°C
	$\text{C}_5\text{H}_4\text{Br}_2\text{N}_2$ [35486-42-1] F.W. 251.91	2-AMINO-3,5- DIBROMOPYRIDINE	Assay: min. 97% m.p.: 102÷104°C

	C₅H₃Br₂N [624-28-2] F.W. 236.81	2,5-DIBROMOPYRIDINE	Assay: min. 99% m.p.: 92÷94°C
	C₅H₃BrClN [53939-30-3] F.W. 192.44	5-BROMO-2-CHLOROPYRIDINE	Assay: min. 97% m.p.: 67÷70°C
	C₅H₄IN [1120-90-7] F.W. 205.00	3-IODOPYRIDINE	Assay: min. 99% m.p.: 52÷53°C
	C₇H₇ClO₃S [98-68-0] F.W. 206.65	4-METHOXY BENZENESULFONYL CHLORIDE	Assay: min. 99% m.p.: 39÷40°C
	C₆H₄BrClO₂S [98-58-8] F.W. 255.52	4-BROMO BENZENESULFONYL CHLORIDE	Assay: min. 99% m.p.: 72÷74°C
	C₅H₆Cl₂O₂ [2873-74-7] F.W. 169.01	GLUTARYL CHLORIDE	Assay: min. 98% b.p.: 95÷100°C (10 Torr)
	C₉H₃ClO₄ [1204-28-0] F.W. 210.57	TRIMELLITIC ANHYDRIDE CHLORIDE	Assay: min. 98% m.p.: 66÷68°C
	C₂₃H₂₃N₂I [977-96-8] F.W. 454.35	1,1'-DIETHYL-2,2'-CYANINE IODIDE	m.p.: 275°C (dec) λ _{max} : 488 nm
	C₂₅H₂₉ClN₂O₄S₂ F.W. 521.09	3,3-DI(OXYETHYL-5,5- DIMETHOXY-9- ETHYL)THIOCARBOCYANINE CHLORINE	m.p.: 239÷241°C (dec) λ _{max} : 564 nm

	<p>$C_{21}H_{16}K_2N_4O_8S_2$ F.W. 594.68</p>	<p>4,4-METHENYL-BIS-[(1-p-SULFOPHENYL)-3-METHYL-PIRAZOLONE-5] POTASSIUM SALT</p>	<p>λ_{max} : 435 nm</p>
	<p>$C_{27}H_{52}O_4$ [5638-06-2] F.W. 440.69</p>	<p>HEPTACOSANE-1,27-DIOIC ACID</p>	<p>Assay: min. 97% m.p.: 120-122°C</p>
	<p>$C_{23}H_{47}COOH$ [557-59-5] F.W. 368.64</p>	<p>TETRACOSANOIC ACID (Lignoceric acid)</p>	<p>Assay: min. 97%</p>
	<p>$C_{12}H_{22}O_{11} \cdot H_2O$ [207511-09-9] F.W. 360.31</p>	<p>4-O-α-D-GLUCOPYRANOSYL-D-FRUCTOSE MONOHYDRATE (Maltulose monohydrate)</p>	<p>Assay: min. 99%</p>
	<p>$C_6H_6N_4O_2S$ [7189-69-7] F.W. 198.20</p>	<p>1,1'-SULFONYLDIIMIDAZOLE</p>	<p>Assay: min. 98%</p>
	<p>$C_{14}H_{28}O_5S$ [85618-21-9] F.W. 308.43</p>	<p>1-S-OCTYL-β-D-THIOGLUCOPYRANOSIDE</p>	<p>Assay: min. 98%</p>
	<p>$C_9H_{16}O_6$ [18549-40-1] F.W. 220.22</p>	<p>1,2-O-ISOPROPYLIDENE-α-D-GLUCOFURANOSE</p>	<p>Assay: min. 98%</p>
	<p>$C_8H_{14}O_5$ [20031-21-4] F.W. 190.19</p>	<p>1,2-O-ISOPROPYLIDENE-α-D-XYLOFURANOSE</p>	<p>Assay: min. 98%</p>
	<p>$C_{12}H_{15}NO_7S$ [1158-17-4] F.W. 317.32</p>	<p>2-NITROPHENYL 1-THIO-β-D-GALACTOPYRANOSIDE</p>	<p>Assay: min. 97%</p>

	$C_{12}H_{20}O_6$ [14131-84-1] F.W. 260.28	2,3:5,6-DI-O-ISOPROPYLIDENE-D-MANNOFURANOSE	Assay: min. 97%
	$C_{10}H_{14}O_5$ [54621-94-2] F.W. 214.22	3,4-DI-O-ACETYL-L-FUCAL	Assay: min. 97%
	$C_9H_{18}O_5S$ [367-93-1] F.W. 238.30	ISOPROPYL β -D-THIOGALACTOPYRANOSIDE	Assay: min. 99%
	$C_{33}H_{32}O_5S$ [87470-70-0] F.W. 540,67	PHENYL 2,3-DI-O-BENZYL-4,6-O-BENZYLIDENE-1-THIO- β -D-GLUCOPYRANOSIDE	Assay: min. 97% mp.: 154÷156°C
	$C_{14}H_{25}N_3O_5Si$ [186967-38-4] F.W. 343,45	3-O-ACETYL-1,6-ANHYDRO-2-AZIDO-2-DEOXY-4-TBDMS- β -D-GLUCOPYRANOSE	Assay: min. 98% mp.: 68÷70°C
	$C_{19}H_{22}O_5S$ [189144-54-5] F.W. 362.44	PHENYL 3-O-BENZYL-1-THIO- β -D-GLUCOPYRANOSIDE	Assay: min. 97%
	$C_{27}H_{28}O_4$ [80040-79-5] F.W. 416.51	TRI-O-BENZYL-D-GALACTAL	Assay: min. 98%
	$C_{27}H_{28}O_4$ [55628-54-1] F.W. 416.51	TRI-O-BENZYL-D-GLUCAL	Assay: min. 98%

	<p>$C_{28}H_{38}O_{19}$ [5346-90-7] F.W. 678.59</p>	<p>α-D-CELLOBIOSE OCTAACETATE</p>	<p>Assay: min. 98%</p>
	<p>$C_{44}H_{70}O_{19}$ F.W 903.02</p>	<p>LACTOSE OCTAISOBTYRATE</p>	<p>Assay: min. 98%</p>
	<p>$C_{16}H_{22}O_{11}$ [4163-60-4] F.W. 390.34</p>	<p>β-D-GALACTOSE PENTAACETATE</p>	<p>Assay: min. 96%</p>
	<p>$C_{14}H_{10}ClNO$ [2224-77-3] F.W 243,695</p>	<p>1-(4-CHLOROPHENYL)-3- OXOISOINDOLINE</p>	<p>Assay: min. 99%</p>
	<p>$C_8H_{14}O_5$ [13199-25-2] F.W. 190.19</p>	<p>2,3-O-ISOPROPYLIDENE-D- RIBOFURANOSE</p>	<p>Assay: min. 98%</p>
	<p>$C_{14}H_8ClNO_2$ [2224-83-1] F.W. 257,67</p>	<p>4-(4'-CHLOROPHENYL)-1H-2,3- BENZOXAZINE-1-ONE</p>	<p>-</p>
	<p>$C_{32}H_{58}O_{13}$ F.W. 650.80</p>	<p>O-BENZYL-O- METHYLDODECAETHYLENE GLYCOL</p>	<p>Assay: min.97%(¹HNMR)</p>
	<p>$C_5H_3Br_2N$ [625-92-3] F.W. 236.89</p>	<p>3,5-DIBROMOPYRIDINE</p>	<p>Assay: min.99% m.p.: 112±113°C</p>

	<p>$C_{25}H_{20}K_2N_4O_8S_2$</p> <p>F.W. 646.75</p>	<p>BIS-[(1-p-SULFOPHENYL)-3-METHYL-PIRAZOLONE-5]-PENTAMETHIN POTASSIUM SALT</p>	<p>m.p.: min.300°C</p>
	<p>$C_{16}H_{11}N_2SO_4Na$</p> <p>[633-96-5]</p> <p>F.W. 350.32</p>	<p>ORANGE II SODIUM SALT</p> <p>4-(2-HYDROXY-1-NAPHTHYLAZO) BENZENESULFONIC ACID SODIUM SALT</p> <p>(C.I. 15510, Acid orange 77)</p>	<p>Assay: min.85%</p> <p>λ_{max} : 483 nm</p>
	<p>$C_{16}H_{12}N_2O$</p> <p>[842-07-9]</p> <p>F.W. 248.28</p>	<p>SUDAN I</p> <p>1-PHENYLAZO-2-NAPHTHOL</p> <p>(C.I. 12055, Solvent Yellow 14)</p>	<p>Water-max.1%</p> <p>m.p: 127÷130°C</p>