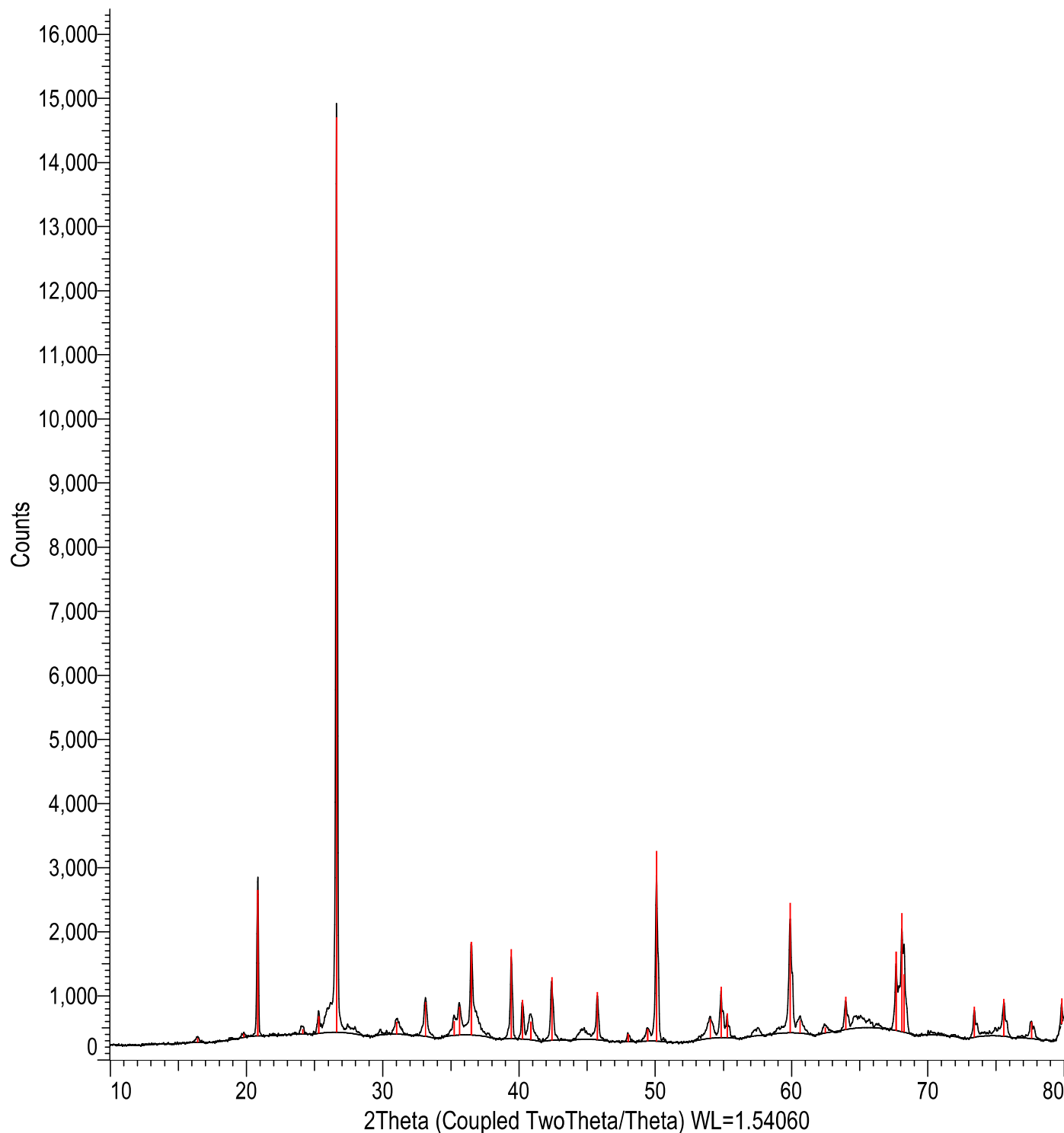




**XRD TEST REPORT**  
**INSTRUMENT: BRUKER D8 ADVANCE ECO**

2882b CFA - Sodalite - CTAB (Coupled TwoTheta/Theta)



■ 2882b CFA - Sodalite - CTAB; Crystallinity = 66.6%



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Gedung A Lt. 1, Jl. Kaliurang Km. 4 Sekip Utara Yogyakarta 55281 Telp. (0274) 548348, 546868  
WA. 0811274565 Email. lppt\_info@mail.ugm.ac.id Website. <https://lppt.ugm.ac.id>

## Peak List #1

Index	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity	Intensity	FWHM	Width (low)
1	16.418 °	5.39500 Å	50.9174	325.716	0.5%	325.716	0.178	0.089
2	19.805 °	4.47928 Å	42.8142	394.268	0.4%	394.268	0.126	0.063
3	20.837 °	4.25970 Å	1750.44	2123.23	16.0%	2123.23	0.100	0.050
4	24.128 °	3.68555 Å	59.4789	463.682	0.5%	463.682	0.166	0.083
5	25.302 °	3.51710 Å	208.216	621.212	1.9%	621.212	0.111	0.056
6	26.617 °	3.34627 Å	10948.6	11378.8	100.0%	11378.8	0.100	0.050
7	31.029 °	2.87978 Å	149.664	550.455	1.4%	550.455	0.228	0.114
8	33.140 °	2.70101 Å	412.913	778.242	3.8%	778.242	0.146	0.073
9	35.243 °	2.54455 Å	172.333	552.916	1.6%	552.916	0.100	0.050
10	35.627 °	2.51799 Å	337.266	723.782	3.1%	723.782	0.220	0.110
11	36.512 °	2.45896 Å	1115.75	1502.20	10.2%	1502.2	0.126	0.063
12	39.435 °	2.28315 Å	1074.52	1405.59	9.8%	1405.59	0.100	0.050
13	40.258 °	2.23837 Å	471.046	795.983	4.3%	795.983	0.114	0.057
14	40.859 °	2.20683 Å	218.778	531.291	2.0%	531.291	0.214	0.107
15	42.407 °	2.12977 Å	755.528	1059.86	6.9%	1059.86	0.126	0.063
16	45.749 °	1.98167 Å	574.119	887.142	5.2%	887.142	0.112	0.056
17	47.999 °	1.89388 Å	92.7650	374.380	0.8%	374.38	0.132	0.066
18	49.433 °	1.84225 Å	147.069	438.775	1.3%	438.775	0.207	0.103
19	50.098 °	1.81936 Å	2276.81	2567.37	20.8%	2567.37	0.116	0.058
20	54.046 °	1.69540 Å	231.314	568.137	2.1%	568.137	0.275	0.138
21	54.830 °	1.67298 Å	610.679	958.383	5.6%	958.383	0.148	0.074
22	55.279 °	1.66046 Å	292.997	640.163	2.7%	640.163	0.127	0.064
23	59.905 °	1.54283 Å	1557.07	1979.58	14.2%	1979.58	0.146	0.073
24	60.629 °	1.52611 Å	151.403	568.190	1.4%	568.19	0.244	0.122
25	62.467 °	1.48555 Å	66.3163	485.226	0.6%	485.226	0.210	0.105
26	63.974 °	1.45415 Å	395.840	867.461	3.6%	867.461	0.123	0.061
27	67.675 °	1.38335 Å	946.771	1404.12	8.6%	1404.12	0.100	0.050
28	68.097 °	1.37579 Å	1420.74	1860.24	13.0%	1860.24	0.180	0.090
29	68.256 °	1.37298 Å	694.318	1126.00	6.3%	1126	0.180	0.090
30	73.411 °	1.28876 Å	366.836	719.442	3.4%	719.442	0.100	0.050
31	75.581 °	1.25706 Å	450.438	816.865	4.1%	816.865	0.107	0.053
32	77.605 °	1.22925 Å	201.830	534.327	1.8%	534.327	0.178	0.089
33	79.826 °	1.20055 Å	305.230	869.387	2.8%	869.387	0.100	0.050



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2Theta

Visible	Yes
Icon	
Color	
Index	1
Name	2882b CFA - Sodalite - CTAB.brml (Smooth) #1
Parent	2Theta
Method Name	
Sample ID	2882b CFA - Sodalite - CTAB
File Name	2882b CFA - Sodalite - CTAB.brml (Smooth)
Experiment ID	0
Experiment File Name	COMMANDER_MEASUREMENT_BrukerAXS.bsml
Database ID	
Scan Type	Coupled TwoTheta/Theta
Scan Mode	Continuous PSD fast
Scan Status	Completed
Start	10.000 °
End	80.010 °
Step Size	0.020 °
Total Time/Step	76.80 s
Time/Step	0.40 s
Axis Offset	
Temperature	25 °C (Room)
Temp. Diff.	
Heating Rate	
Time Started	0.0
Goniometer Radius	280.0 mm
Goniometer Radius Primary	
Goniometer Radius Secondary	
IPA Mode	
2-theta	
2-theta Osc. Amplitude	
2-theta Osc. Speed	
2-theta NC	
Theta	
Theta Osc. Amplitude	
Theta Osc. Speed	
Detector	
Detector Osc. Amplitude	
Detector Osc. Speed	
Δ Omega	
Chi	
Chi Osc. Amplitude	
Chi Osc. Speed	
Psi	
Psi Osc. Amplitude	
Psi Osc. Speed	
Phi	359.96 °
Phi Osc. Amplitude	0.00 °
Phi Osc. Speed	0.00 °/min
X-Drive	
X-drive Osc. Amplitude	
X-drive Osc. Speed	



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Y-Drive	
Y-drive Osc. Amplitude	
Y-drive Osc. Speed	
Z-Drive	
Z-drive Osc. Amplitude	
Z-drive Osc. Speed	
Alpha_i	
Beam Translation	
Aux1	
Aux2	
Aux3	
Sample Rotation	0.000 1/min
Anode	Cu
Focus Orientation	Line Focus
$\text{ka}1$	1.54060 Å
$\text{ka}2$	1.54439 Å
$\text{ka}2$ Ratio	0.50000
$\text{k}\beta$	1.39222 Å
$\text{K}\beta$ Filter	
Wavelength for display	1.54060 Å
Generator kV	40.0 kV
Generator mA	25.0 mA
Absorber	
Primary Monochromator	
Secondary Monochromator	
Detector Name	LYNXEYE_XE_T (1D mode)
Calcium Channel	
Calcium Channel Time	
LynxEye 0D	No
Detector Opening	2.946 °
Detector Opening Initial	
2Theta For Final Detector Opening	
2Theta For Last Step with Full Detector Opening	
Detector Slit Opening	
Lower Discriminator	0.772 V
Upper Discriminator	0.822 V
Discriminator Width	
Detector Counts 0D	
Detector Profile	
Detector ROI 2Theta	
Detector ROI Gamma	
Detector Distance	
Primary Soller slit	
Secondary Soller slit	2.500 °
Center Soller slit	
Air-Scatter Screen	Yes
Air-Scatter Screen Mode	Fixed
Air-Scatter Opening	6 mm
Divergence Slit	15.000 mm
Divergence Slit 2	
Height Slit	
Antiscatter Slit	18.000 mm
Slit Mode	Variable
Simul. Slit Mode	



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Center Slit	
X-Offset	0.000 °
Displacement	0.000 mm
Y-Scale Factor	1
Y-Offset	0.000 Counts
Humidity	n.a.
Curvature	1.000
Threshold	1.000
Enhanced	No
BackgroundFit	No
BackgroundOrder	0.000
BackgroundHyperbola	No
Background Subtracted	No
Compute Crystallinity	Yes
Cristallinity - From	10.000
Cristallinity - To	80.010
%-Crystallinity	66.6%
%-Amorphous	33.4%
Global Area	188.92
Reduced Area	125.78
Transmission without Blank	
Transmission	
Company Name	
Operator Name	Lab Manager
Instrument Serial#	214562
User Comment	
Sample Position	1A01
Creation Date/Time	22/12/2023 15.47.01
Last Write Date/Time	22/12/2023 16.10.59
Measurement Duration	00:23:57
Analyzer Crystal	
Set index	Not used
Application Type	PowderDiffraction
SaveToDatabase	No
DatabaseCompoundName	Scan 1