

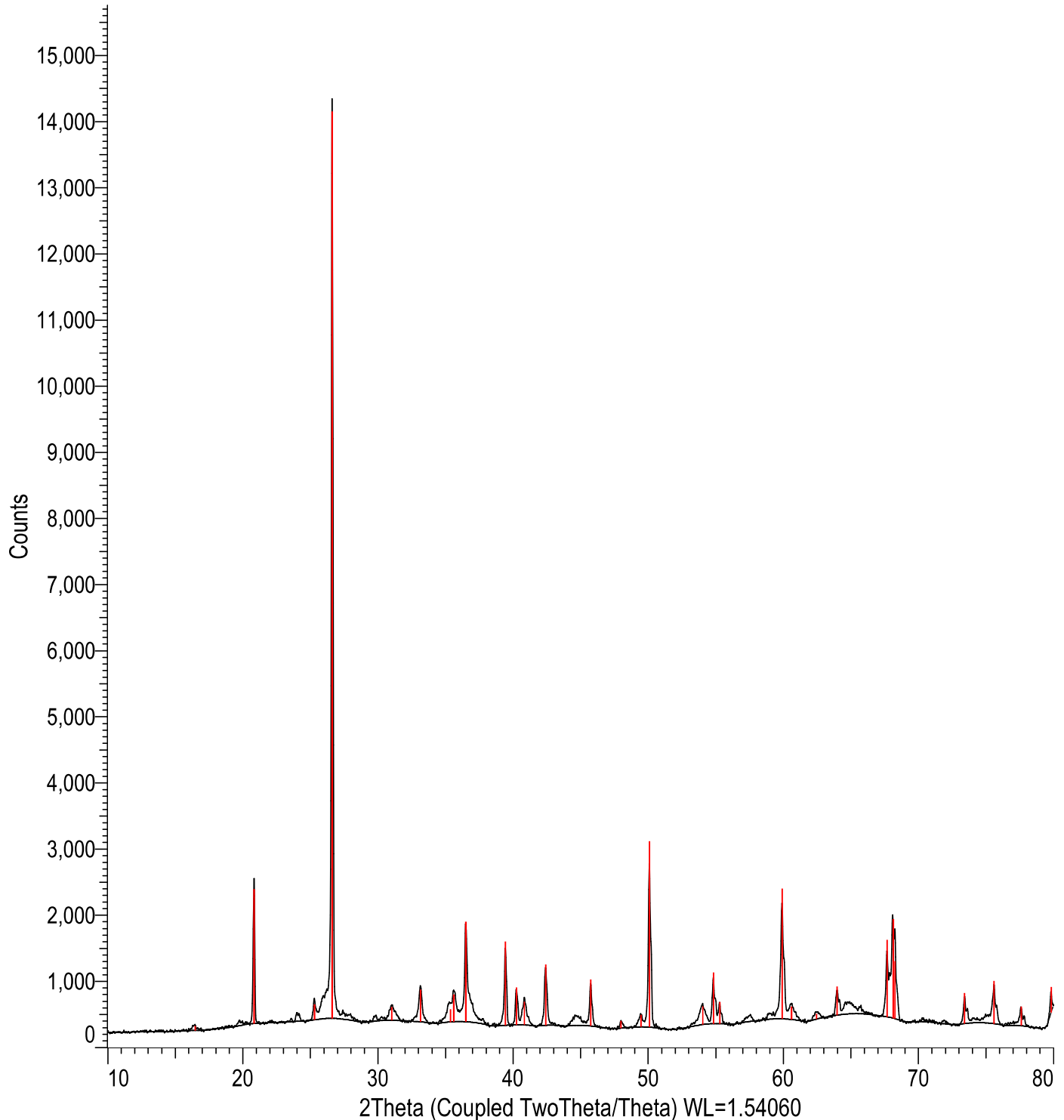


# UNIVERSITAS GADJAH MADA LABORATORIUM PENELITIAN DAN PENGUJIAN TERPADU

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

2882a CFA - Sodalite (Coupled TwoTheta/Theta)



■ 2882a CFA - Sodalite; Crystallinity = 63.9%



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## Peak List #1

Index	Angle	d Value	Net Intensity	Gross Intensity	Rel. Intensity	Intensity	FWHM	Width (low)
1	16.462 °	5.38048 Å	55.3549	311.291	0.5%	311.291	0.181	0.090
2	20.834 °	4.26021 Å	1576.97	1937.83	14.8%	1937.83	0.100	0.050
3	25.296 °	3.51804 Å	183.424	602.749	1.7%	602.749	0.130	0.065
4	26.615 °	3.34653 Å	10628.9	11066.9	100.0%	11066.9	0.100	0.050
5	31.032 °	2.87958 Å	156.045	568.306	1.5%	568.306	0.287	0.144
6	33.147 °	2.70050 Å	379.155	767.014	3.6%	767.014	0.151	0.075
7	35.362 °	2.53626 Å	148.376	534.616	1.4%	534.616	0.420	0.210
8	35.610 °	2.51917 Å	320.698	710.106	3.0%	710.106	0.100	0.050
9	36.509 °	2.45918 Å	1172.93	1561.48	11.0%	1561.48	0.124	0.062
10	39.429 °	2.28352 Å	981.958	1318.15	9.2%	1318.15	0.104	0.052
11	40.253 °	2.23863 Å	440.825	783.617	4.1%	783.617	0.117	0.059
12	40.839 °	2.20786 Å	270.925	612.641	2.5%	612.641	0.184	0.092
13	42.414 °	2.12945 Å	713.312	1049.43	6.7%	1049.43	0.122	0.061
14	45.743 °	1.98191 Å	544.756	870.679	5.1%	870.679	0.108	0.054
15	47.990 °	1.89422 Å	86.3021	377.596	0.8%	377.596	0.113	0.057
16	49.455 °	1.84149 Å	142.448	452.909	1.3%	452.909	0.188	0.094
17	50.094 °	1.81948 Å	2180.84	2487.60	20.5%	2487.6	0.112	0.056
18	54.041 °	1.69555 Å	215.665	561.920	2.0%	561.92	0.274	0.137
19	54.826 °	1.67312 Å	601.621	960.268	5.7%	960.268	0.144	0.072
20	55.290 °	1.66016 Å	255.772	614.801	2.4%	614.801	0.129	0.065
21	59.908 °	1.54274 Å	1525.09	1959.04	14.3%	1959.04	0.141	0.070
22	60.612 °	1.52650 Å	152.092	576.424	1.4%	576.424	0.309	0.154
23	62.457 °	1.48577 Å	62.7352	491.504	0.6%	491.504	0.273	0.137
24	63.974 °	1.45414 Å	337.445	825.536	3.2%	825.536	0.159	0.080
25	67.680 °	1.38325 Å	903.434	1365.67	8.5%	1365.67	0.100	0.050
26	68.138 °	1.37506 Å	1161.33	1603.06	10.9%	1603.06	0.178	0.089
27	68.258 °	1.37295 Å	673.464	1109.01	6.3%	1109.01	0.177	0.089
28	73.418 °	1.28867 Å	360.079	720.173	3.4%	720.173	0.120	0.060
29	75.592 °	1.25691 Å	502.767	861.325	4.7%	861.325	0.109	0.054
30	77.597 °	1.22936 Å	225.156	554.727	2.1%	554.727	0.128	0.064
31	79.825 °	1.20056 Å	300.152	829.594	2.8%	829.594	0.100	0.050



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2Theta

Visible	Yes
Icon	
Color	
Index	1
Name	2882a CFA - Sodalite.brml (Smooth) #1
Parent	2Theta
Method Name	
Sample ID	2882a CFA - Sodalite
File Name	2882a CFA - Sodalite.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	63.9%
%-Amorphous	36.1%
Global Area	186.65
Reduced Area	119.21
Transmission without Blank	
Transmission	
Company Name	
Operator Name	Lab Manager
Instrument Serial#	214562
User Comment	
Sample Position	1A01
Creation Date/Time	22/12/2023 15.18.09
Last Write Date/Time	22/12/2023 15.42.07
Measurement Duration	00:23:57
Analyzer Crystal	
Set index	Not used
Application Type	PowderDiffraction
SaveToDatabase	No
DatabaseCompoundName	Scan 1