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**equipment:** X'Pert Pro, PANalytical B.V., Almelo, the Netherlands

**software:** X'Pert HighScore 1.0d, PANalytical B.V., Almelo, the Netherlands

### Measurement Conditions:

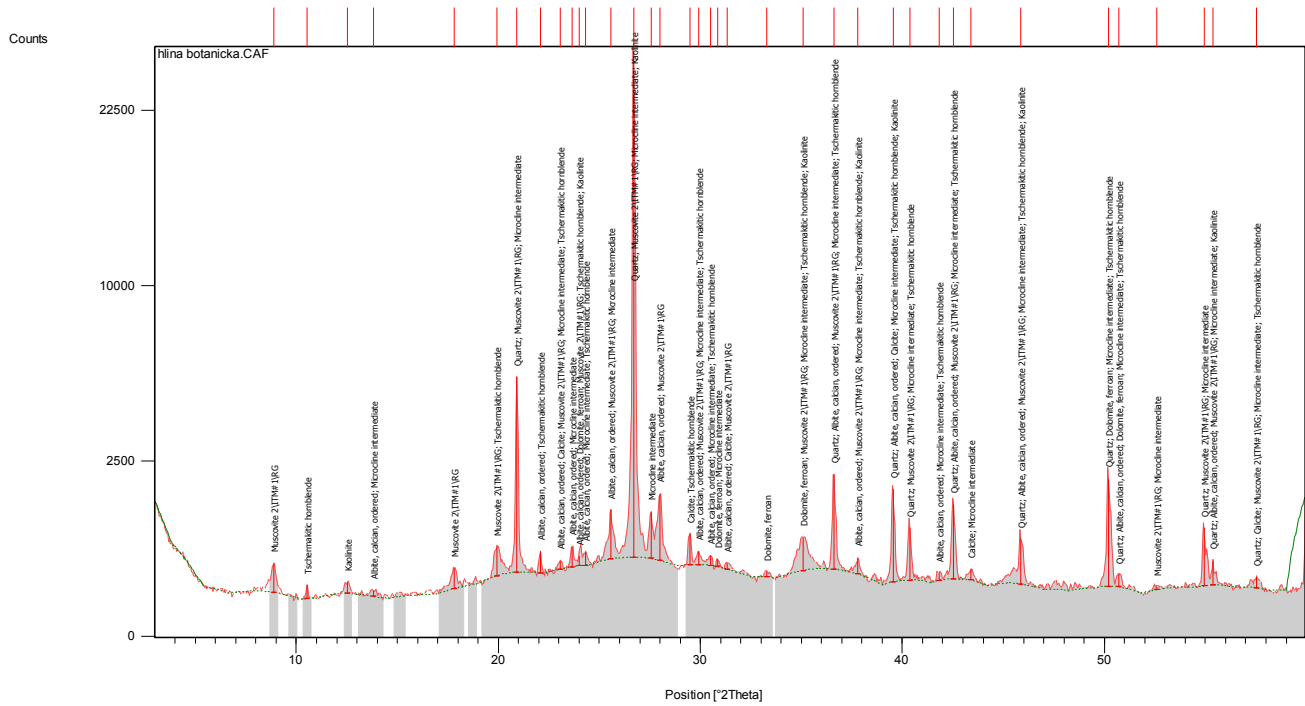
Sample Identification hlina botanicka.xrdml  
 Measurement Date / Time 9/01/2014 17:41:14  
 Operator Administrator  
 Raw Data Origin XRD measurement (\*.XRDML)  
 Scan Axis Gonio  
 Start Position [°2Th.] 3.0230  
 End Position [°2Th.] 59.9730  
 Step Size [°2Th.] 0.0500  
 Scan Step Time [s] 200.0250  
 Scan Type Continuous  
 PSD Mode Scanning  
 PSD Length [°2Th.] 2.12  
 Offset [°2Th.] 0.0000  
 Divergence Slit Type Automatic  
 Irradiated Length [mm] 10.00  
 Specimen Length [mm] 10.00  
 Measurement Temperature [°C] 25.00  
 Anode Material Cu  
 Generator Settings 40 kV, 30 mA  
 Goniometer Radius [mm] 240.00  
 Dist. Focus-Diverg. Slit [mm] 100.00  
 Incident Beam Monochromator No  
 Spinning Yes

### Peak List:

Pos. [°2Th.]	d-spacing [Å]	Height [cts]	Rel. Int. [%]	FWHM [°2Th.]	Matched	Matched by
8.8760	9.96301	278.15	1.02	0.1476	Yes	01-086-1385
10.5258	8.40479	97.82	0.36	0.1476	Yes	01-084-1996
12.5177	7.07150	86.96	0.32	0.2460	Yes	00-003-0059
13.8026	6.41596	41.39	0.15	0.3936	Yes	00-041-1480; 01-077-0135
17.8181	4.97808	194.76	0.72	0.1968	Yes	01-086-1385
19.9481	4.45108	345.76	1.27	0.2460	Yes	01-086-1385; 01-084-1996
20.9128	4.24789	5147.01	18.90	0.1476	Yes	01-085-0795; 01-086-1385; 01-077-0135
22.0681	4.02805	258.74	0.95	0.1476	Yes	00-041-1480; 01-084-1996
23.0562	3.85761	95.83	0.35	0.2460	Yes	00-041-1480; 01-072-1652; 01-086-1385; 01-077-0135; 01-084-1996
23.6422	3.76331	259.50	0.95	0.1476	Yes	00-041-1480; 01-077-0135
24.0122	3.70614	123.12	0.45	0.3936	Yes	00-041-1480; 00-034-0517; 01-086-1385; 01-084-1996; 00-003-0059
24.3075	3.66179	162.64	0.60	0.1476	Yes	00-041-1480; 01-077-0135; 01-084-1996
25.5709	3.48367	824.82	3.03	0.1476	Yes	00-041-1480; 01-086-1385; 01-077-0135
26.7017	3.33864	27238.34	100.00	0.1476	Yes	01-085-0795; 01-086-1385; 01-077-0135; 00-003-0059
27.5492	3.23783	780.49	2.87	0.1476	Yes	01-077-0135
27.9945	3.18733	1184.40	4.35	0.1476	Yes	00-041-1480; 01-086-1385
29.4744	3.03059	443.69	1.63	0.1476	Yes	01-072-1652; 01-084-1996
29.9041	2.98800	175.11	0.64	0.1476	Yes	00-041-1480; 01-086-1385; 01-077-0135; 01-084-1996
30.4909	2.93183	122.07	0.45	0.1968	Yes	00-041-1480; 01-077-0135; 01-084-1996
30.8514	2.89839	90.80	0.33	0.1476	Yes	00-034-0517; 01-077-0135
31.3367	2.85460	78.00	0.29	0.2460	Yes	00-041-1480; 01-072-1652; 01-086-1385
33.2970	2.69088	53.15	0.20	0.3936	Yes	00-034-0517
35.0946	2.55706	448.08	1.65	0.2952	Yes	00-034-0517; 01-086-1385; 01-077-0135; 01-084-1996; 00-003-0059
36.6161	2.45423	1781.07	6.54	0.1476	Yes	01-085-0795; 00-041-1480; 01-086-1385; 01-077-0135; 01-084-1996
37.8002	2.38003	189.58	0.70	0.1476	Yes	00-041-1480; 01-086-1385; 01-077-0135; 01-084-1996; 00-003-0059
39.5364	2.27942	1535.91	5.64	0.1968	Yes	01-085-0795; 00-041-1480; 01-072-1652; 01-077-0135; 01-084-1996; 00-003-0059
40.3618	2.23470	712.21	2.61	0.1476	Yes	01-085-0795; 01-086-1385; 01-077-0135; 01-084-1996
41.8123	2.16047	68.89	0.25	0.1968	Yes	00-041-1480; 01-077-0135; 01-084-1996
42.5249	2.12590	1153.42	4.23	0.1968	Yes	01-085-0795; 00-041-1480; 01-086-1385; 01-077-

43.4025	2.08492	114.56	0.42	0.2952	Yes	0135; 01-084-1996
45.8701	1.97835	552.18	2.03	0.1968	Yes	01-072-1652; 01-077-0135
50.2134	1.81694	1807.74	6.64	0.1968	Yes	01-085-0795; 00-041-1480; 01-086-1385; 01-077-0135; 01-084-1996; 00-003-0059
50.7154	1.80013	111.68	0.41	0.2460	Yes	01-085-0795; 00-034-0517; 01-077-0135; 01-084-1996
52.6032	1.73989	25.31	0.09	0.3936	Yes	01-086-1385; 01-077-0135
54.9438	1.67118	762.11	2.80	0.1968	Yes	01-085-0795; 01-086-1385; 01-077-0135
55.3907	1.65875	242.21	0.89	0.1476	Yes	01-085-0795; 00-041-1480; 01-086-1385; 01-077-0135; 00-003-0059
57.5155	1.60110	93.18	0.34	0.7200	Yes	01-085-0795; 01-072-1652; 01-086-1385; 01-077-0135; 01-084-1996

Analyze View:



Pattern List:

Ref. Code	Compound Name	Score	Total Lines	Scale Factor	SemiQuant [%]
01-085-0795	Quartz	62	12	0.988	32
00-041-1480	Albite, calcian, ordered	36	52	0.032	3
00-034-0517	Dolomite, ferroan	23	13	0.004	-
01-072-1652	Calcite	23	12	0.015	-
01-086-1385	Muscovite 2\ITM#1\RG	24	95	0.156	35
01-077-0135	Microcline intermediate	17	120	0.145	27
01-084-1996	Tschermakitic hornblende	7	97	0.009	1
00-003-0059	Kaolinite	10	21	0.021	1