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Supplement of

Precambrian faulting episodes and insights into the tectonothermal history of north Australia: microstructural evidence and K–Ar, ^{40}Ar – ^{39}Ar , and Rb–Sr dating of syntectonic illite from the intracratonic Millungera Basin

I. Tonguç Uysal et al.

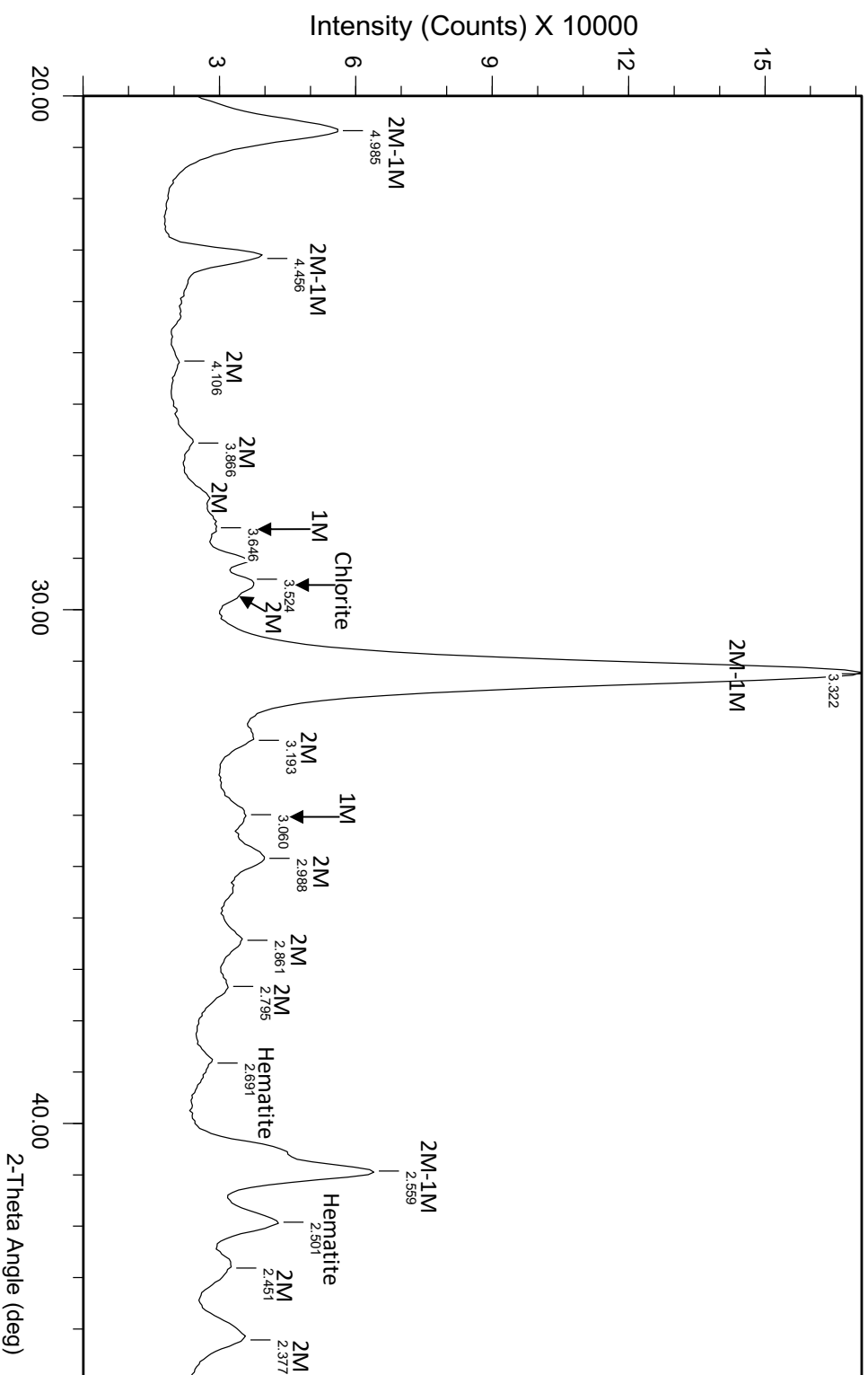
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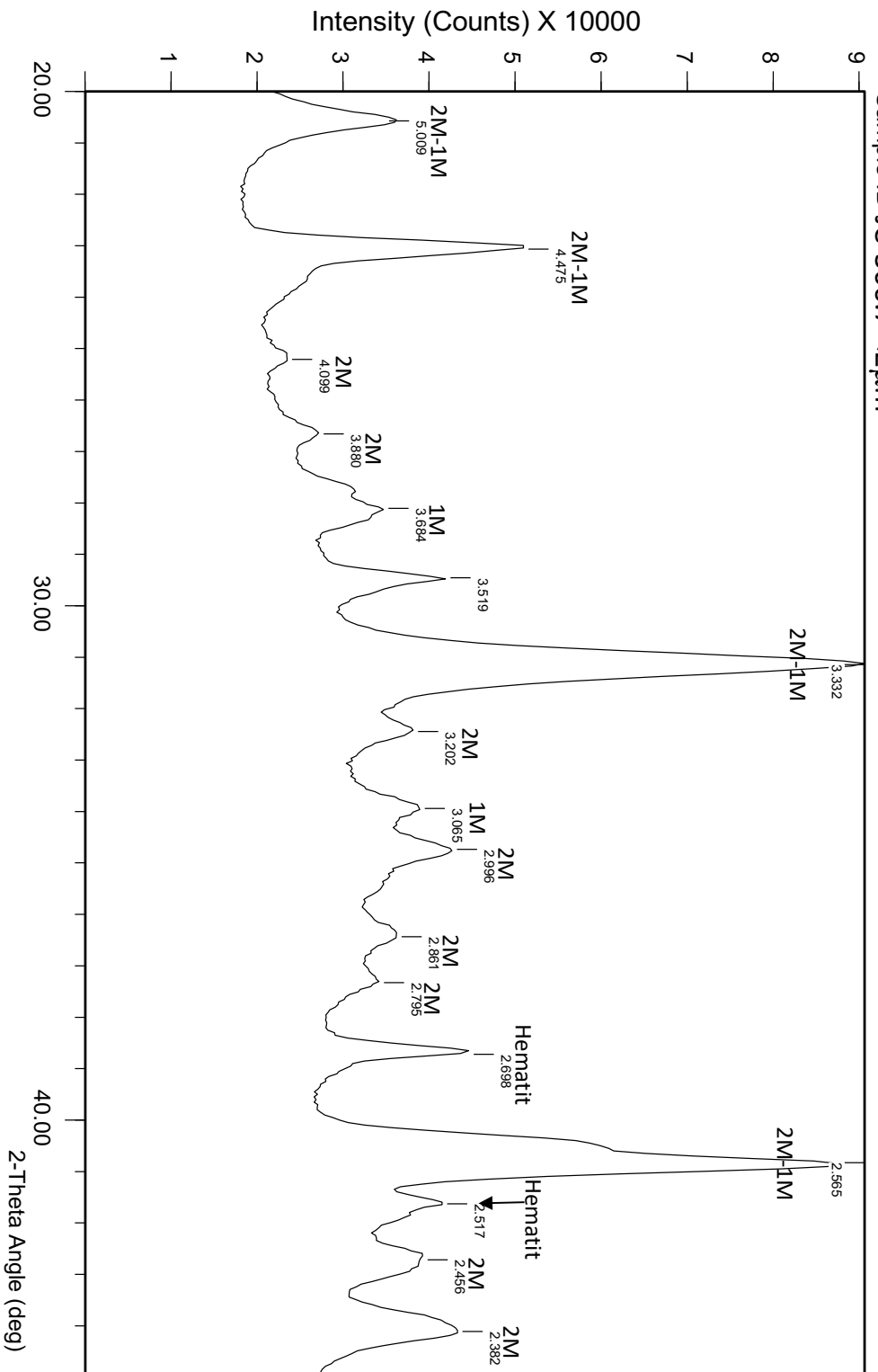
Figure S1. XRR pattern of fault gouges and matrix clays in host sandstones from the Milungera Basin, which have been used for K–Ar, Ar–Ar, and Rb–Sr dating.

XRD PATTERN FOR RANDOM POWDER CLAY FRACTIONS

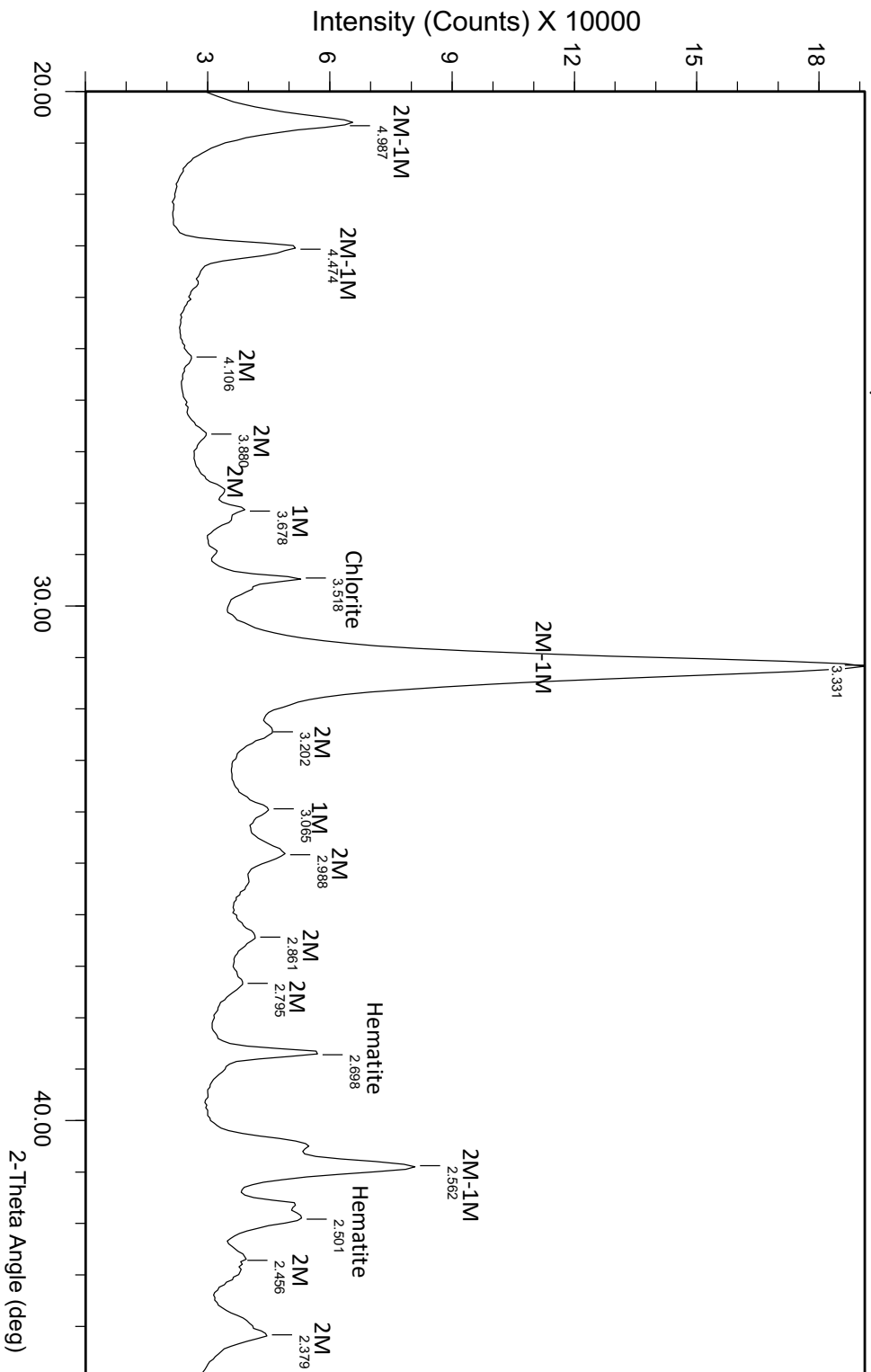
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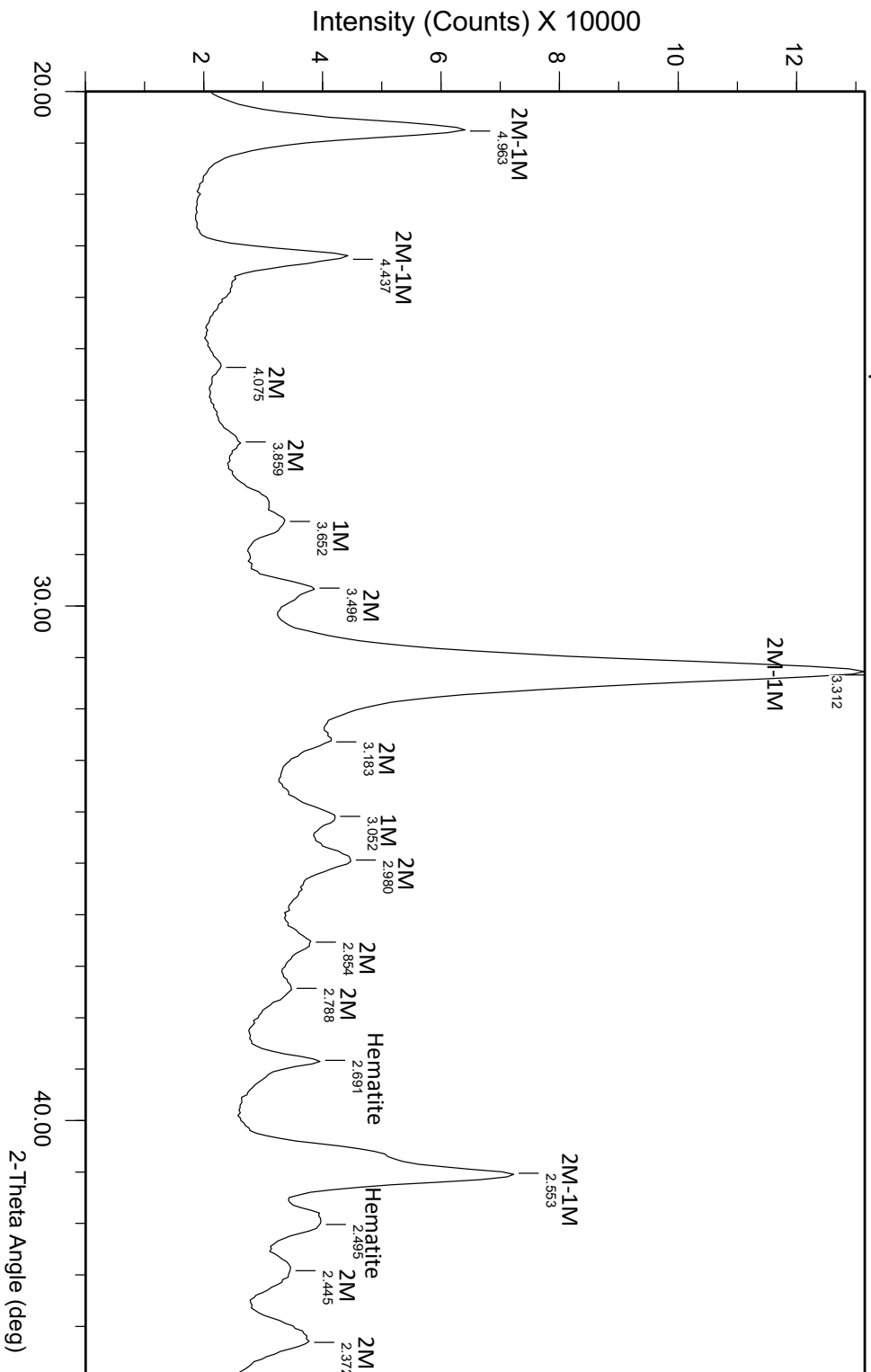
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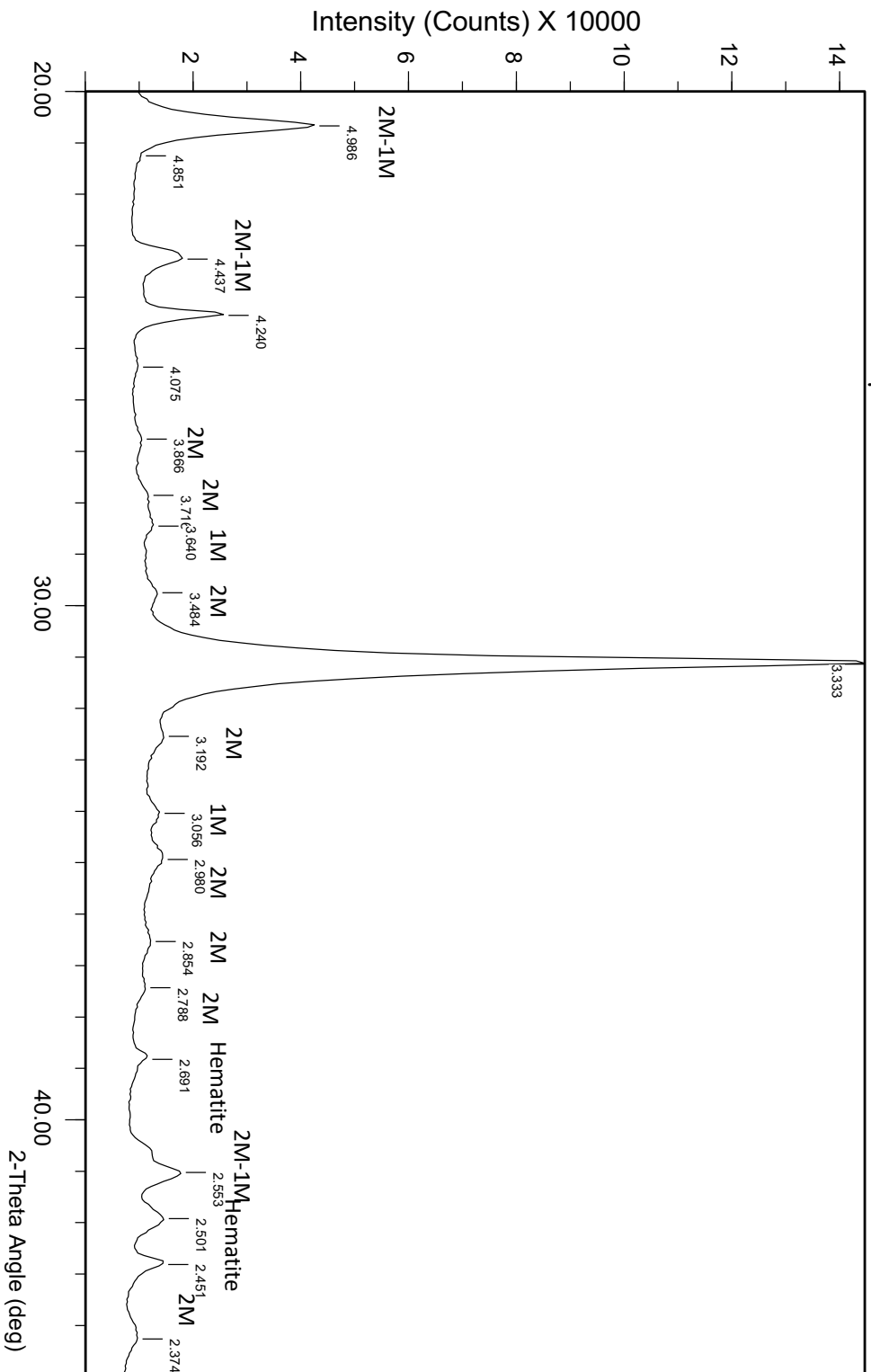
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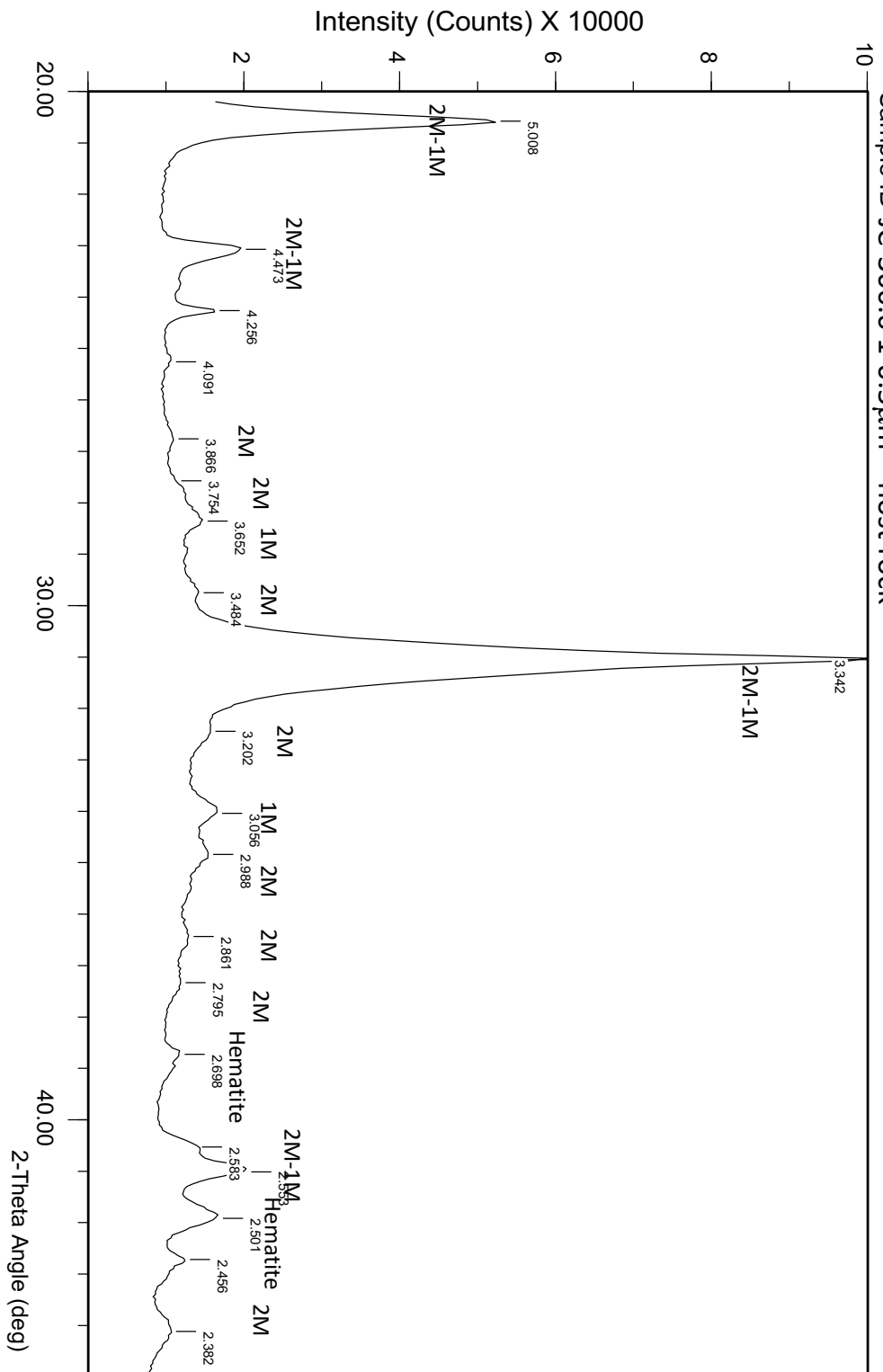
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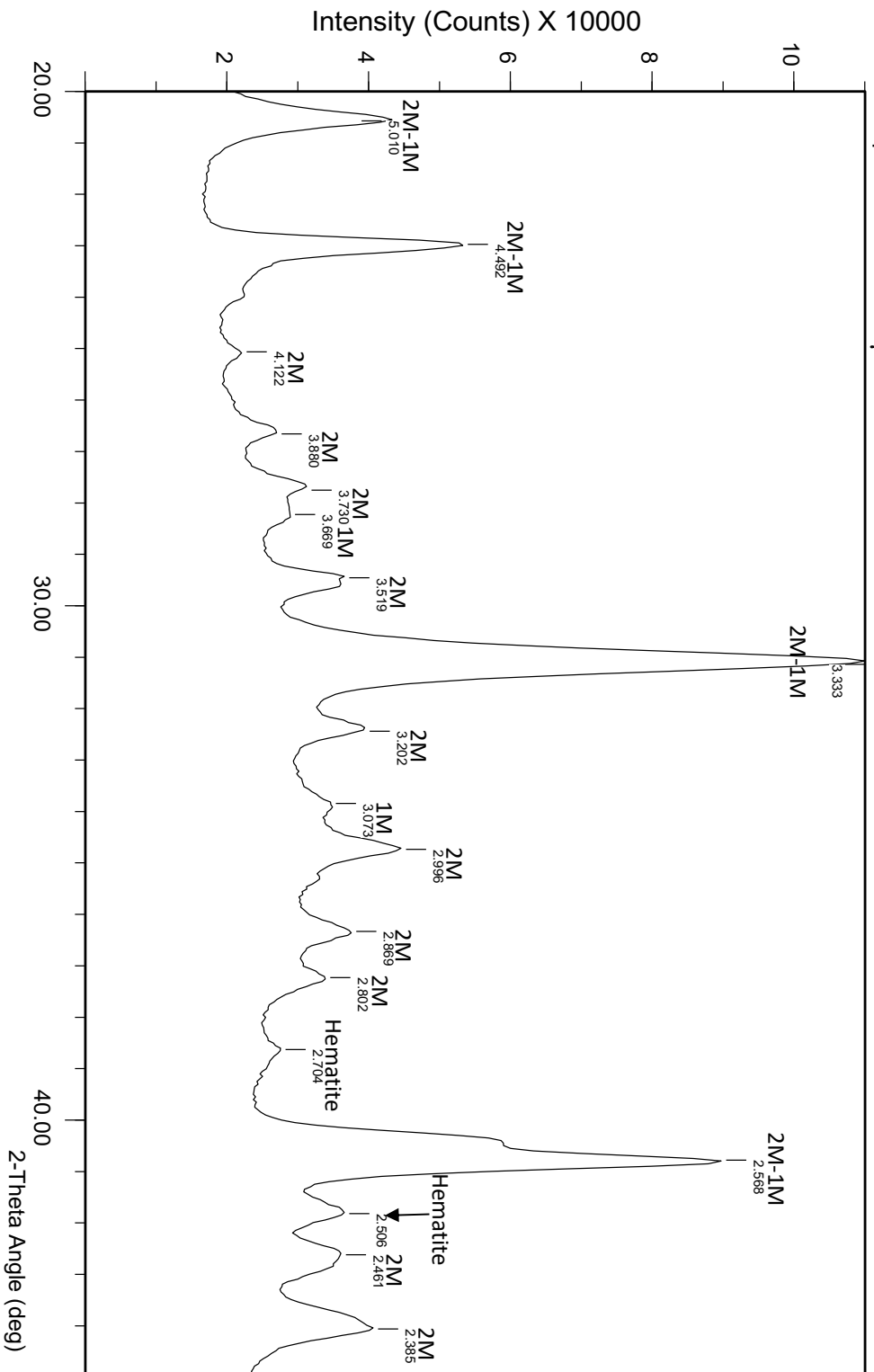
Sample ID JC-360.6 2-1µm – host rock



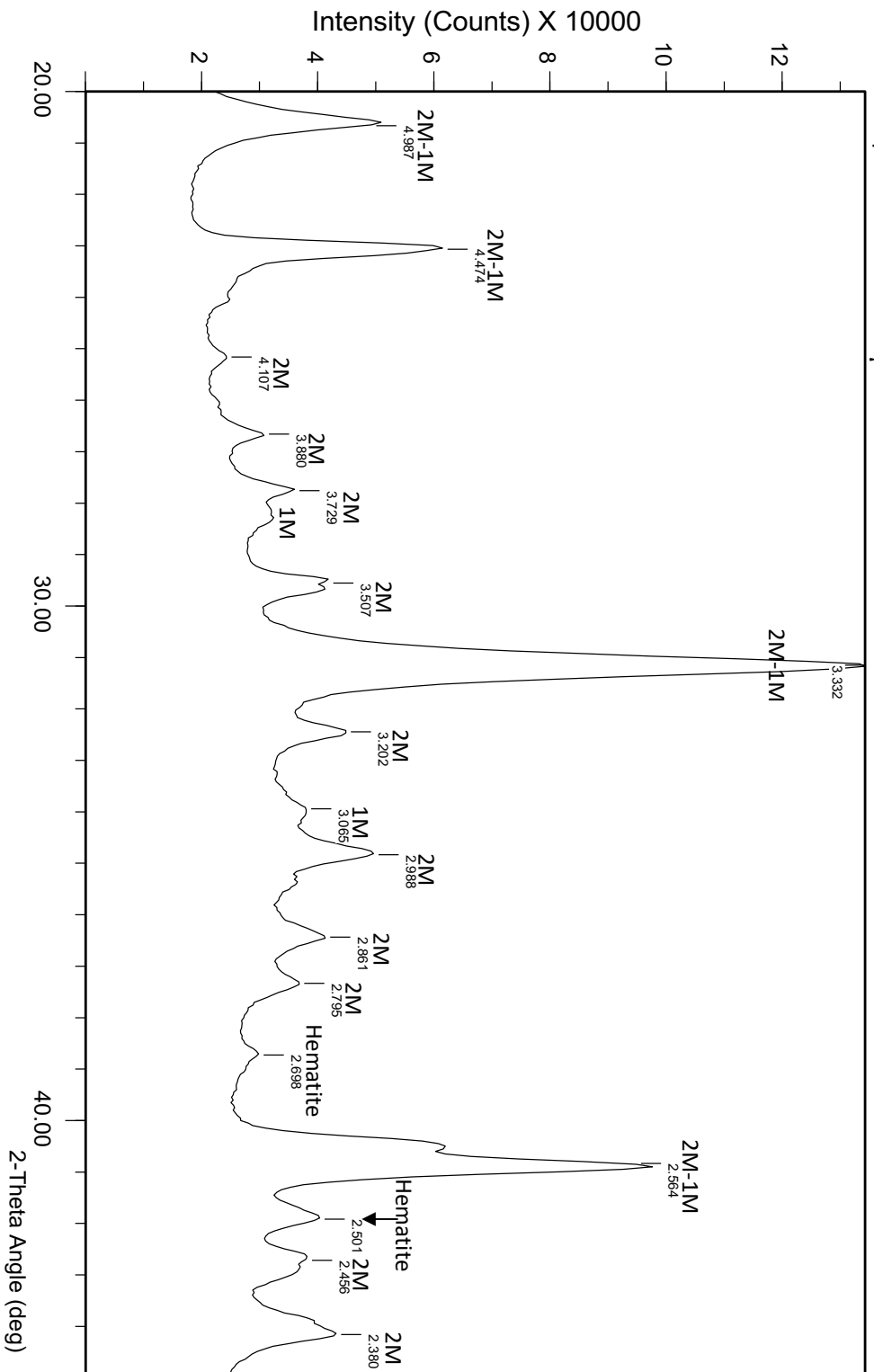
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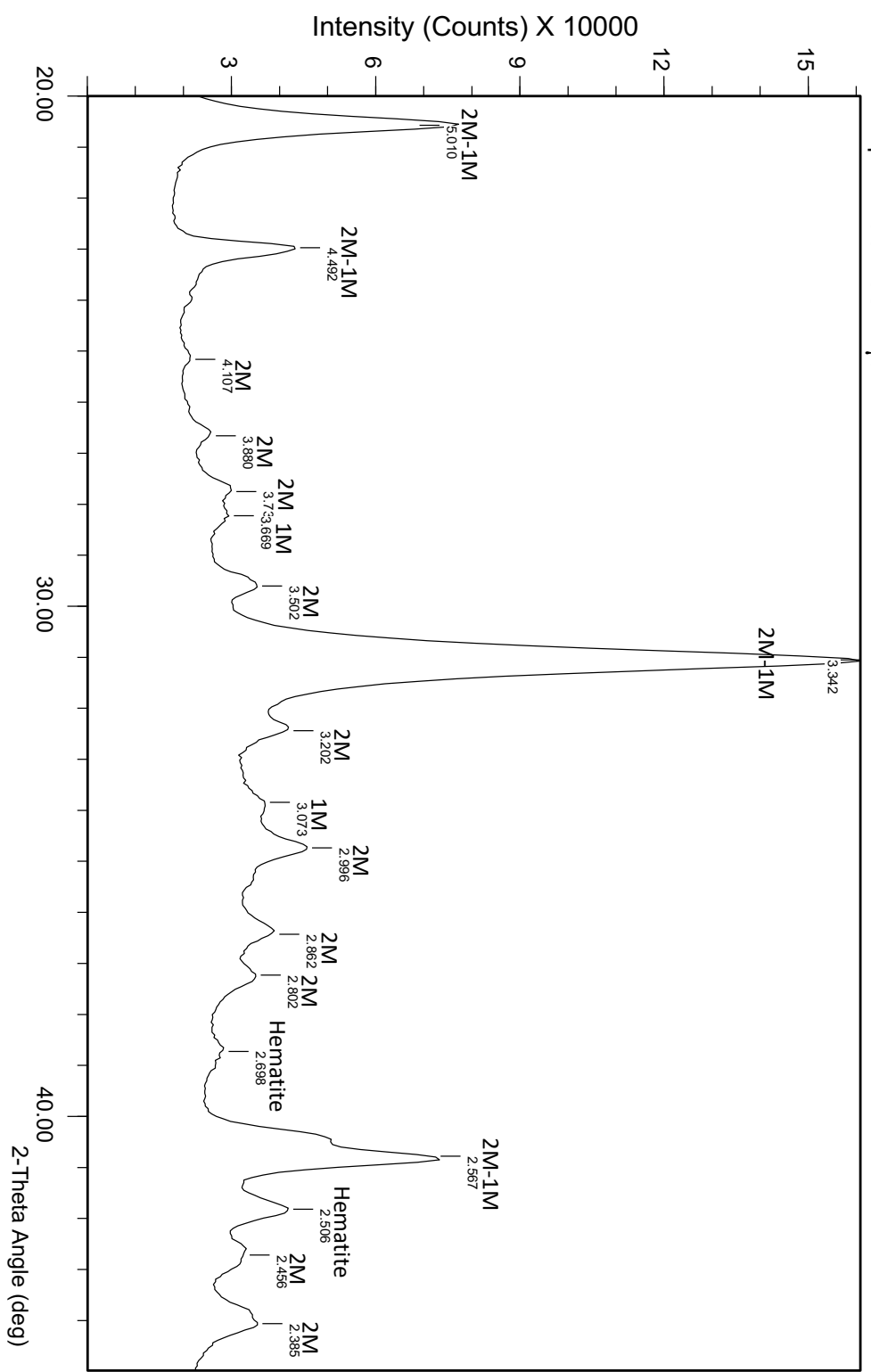
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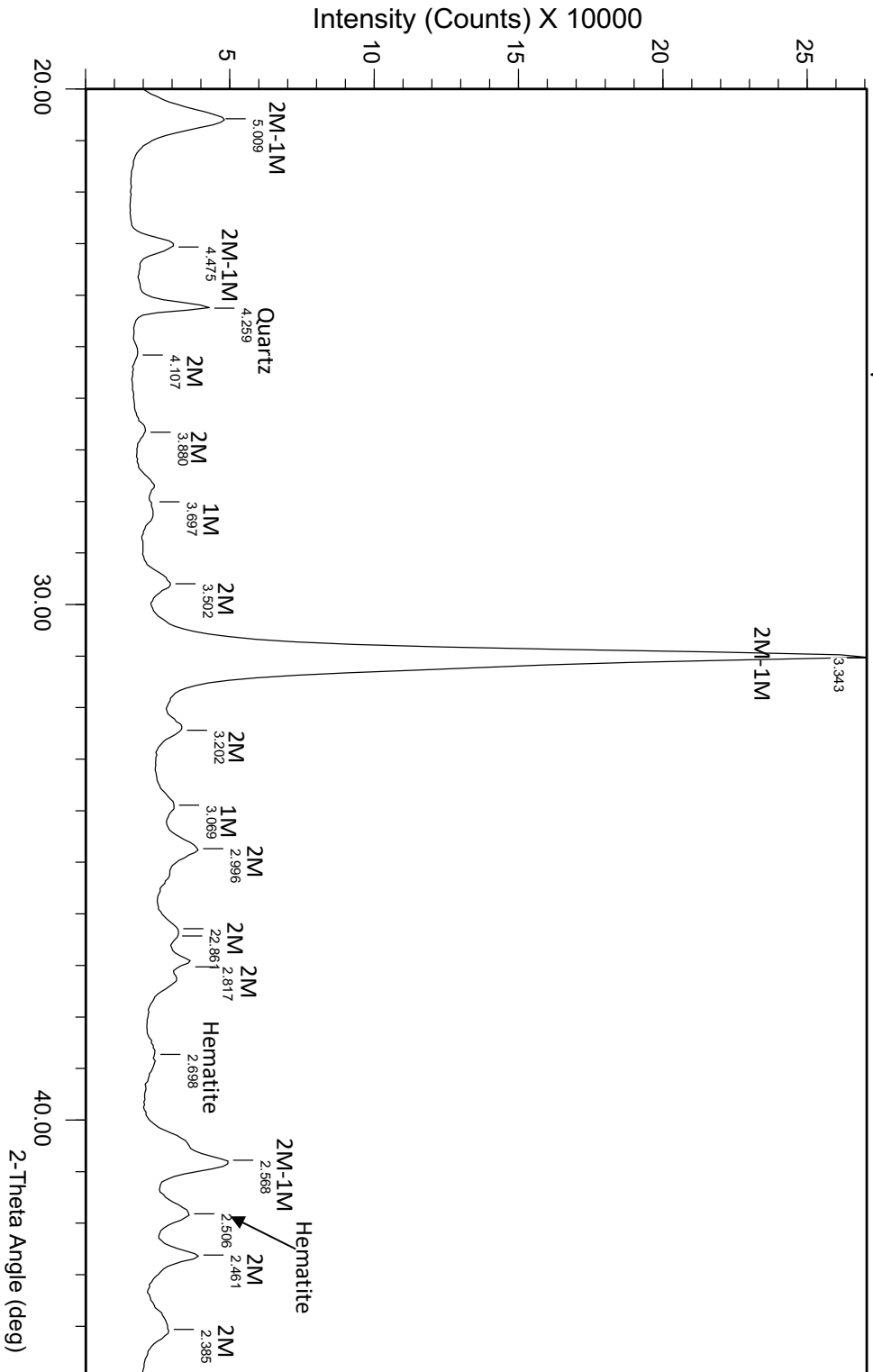
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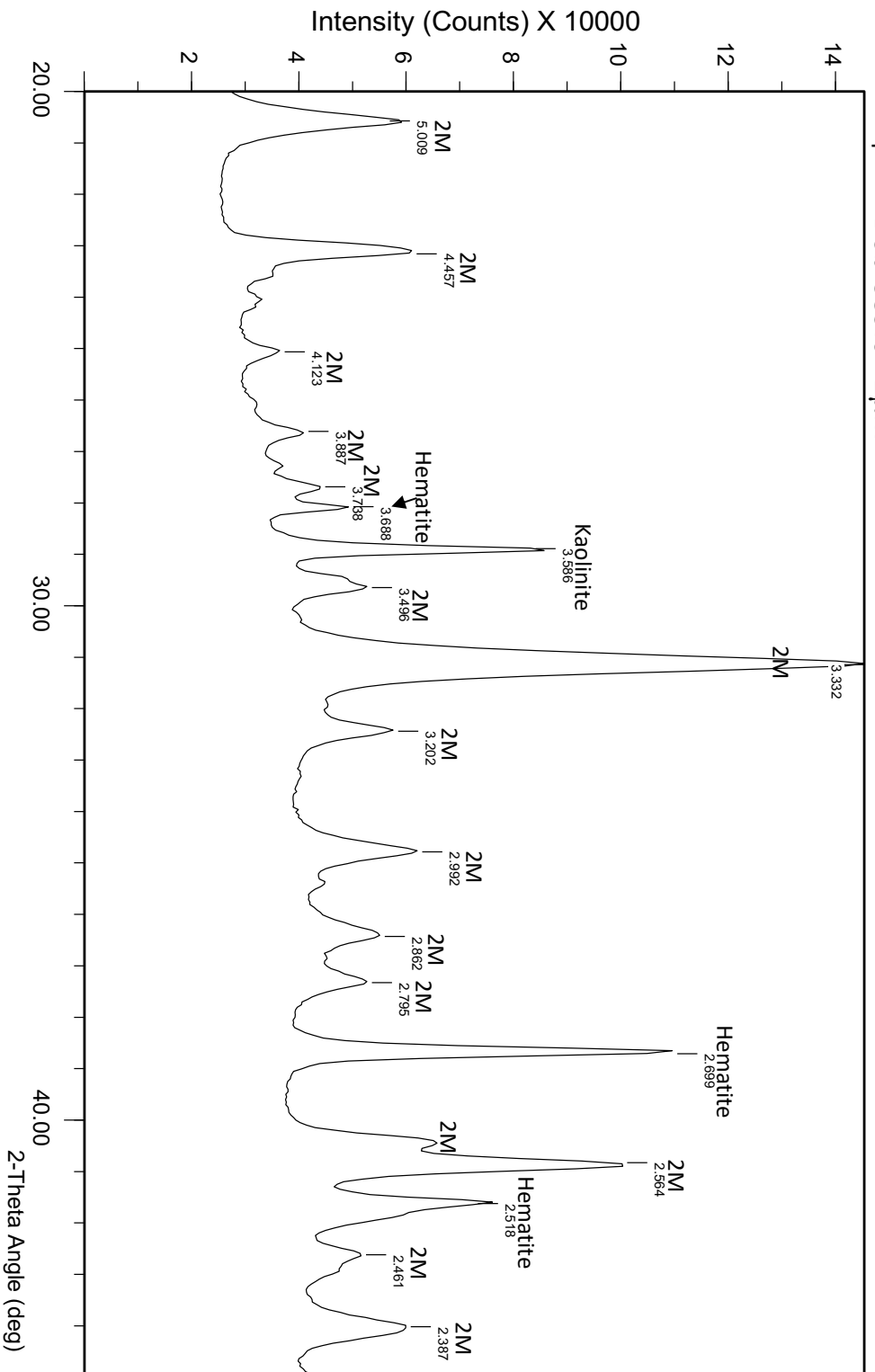
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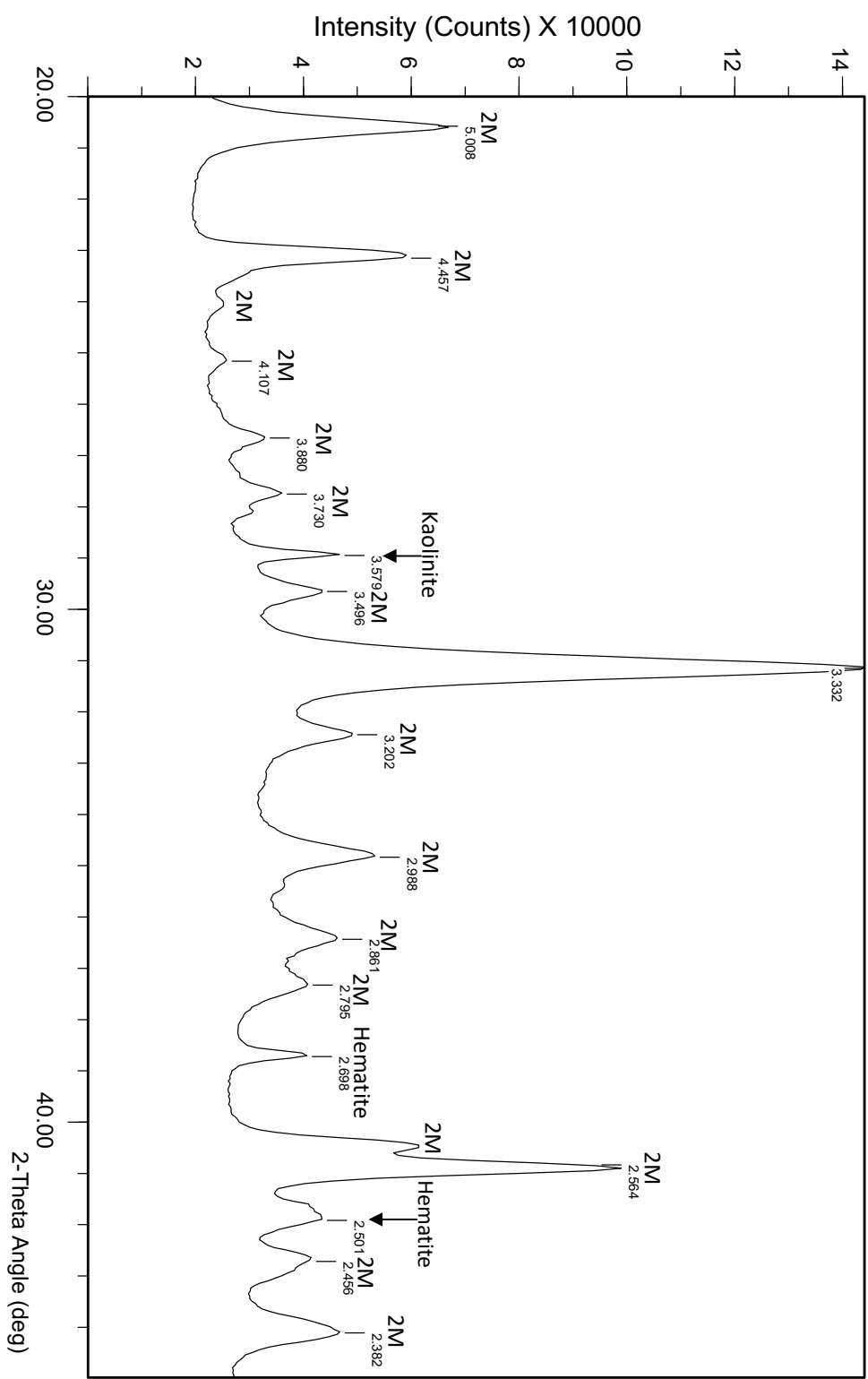
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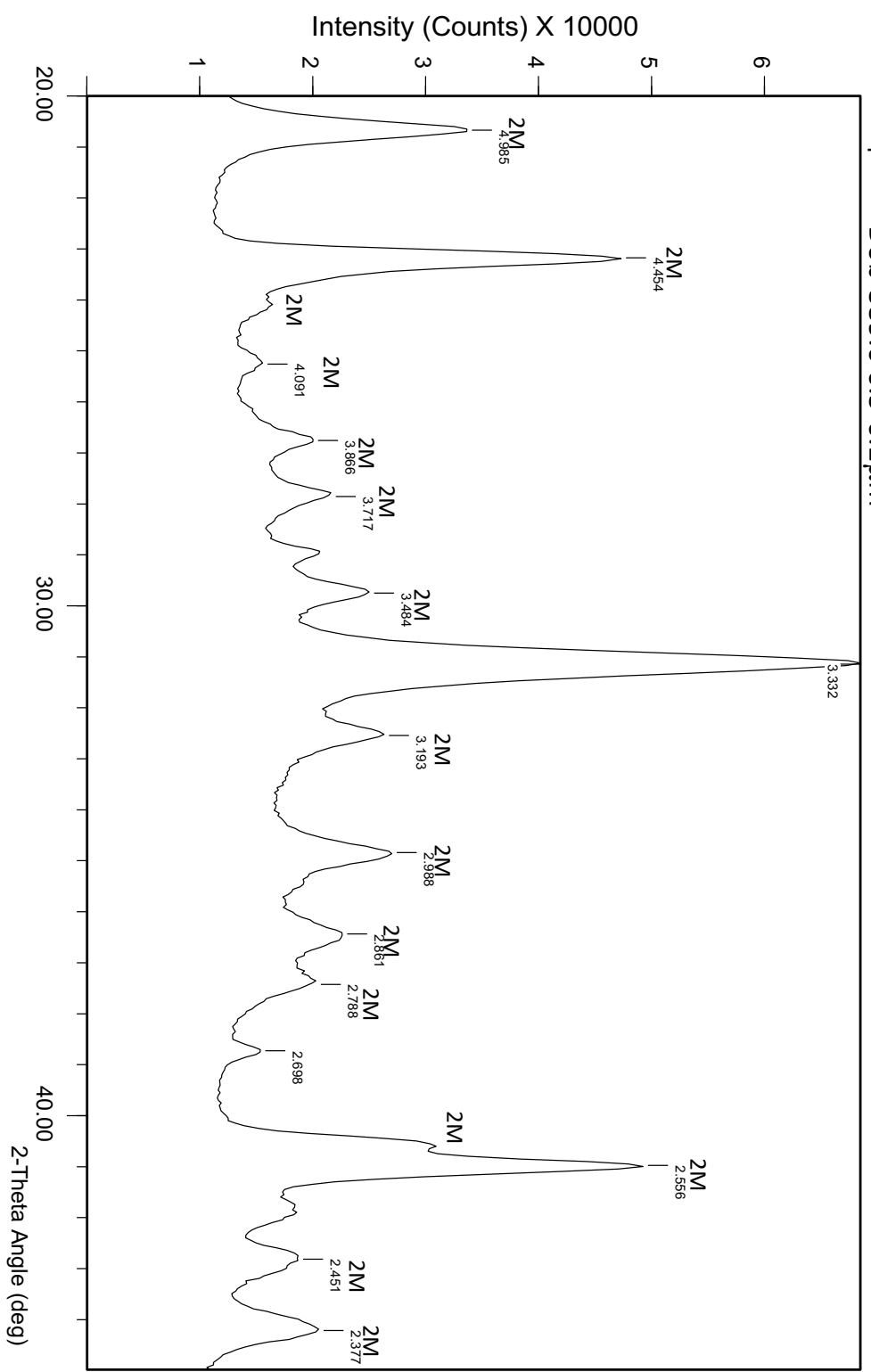
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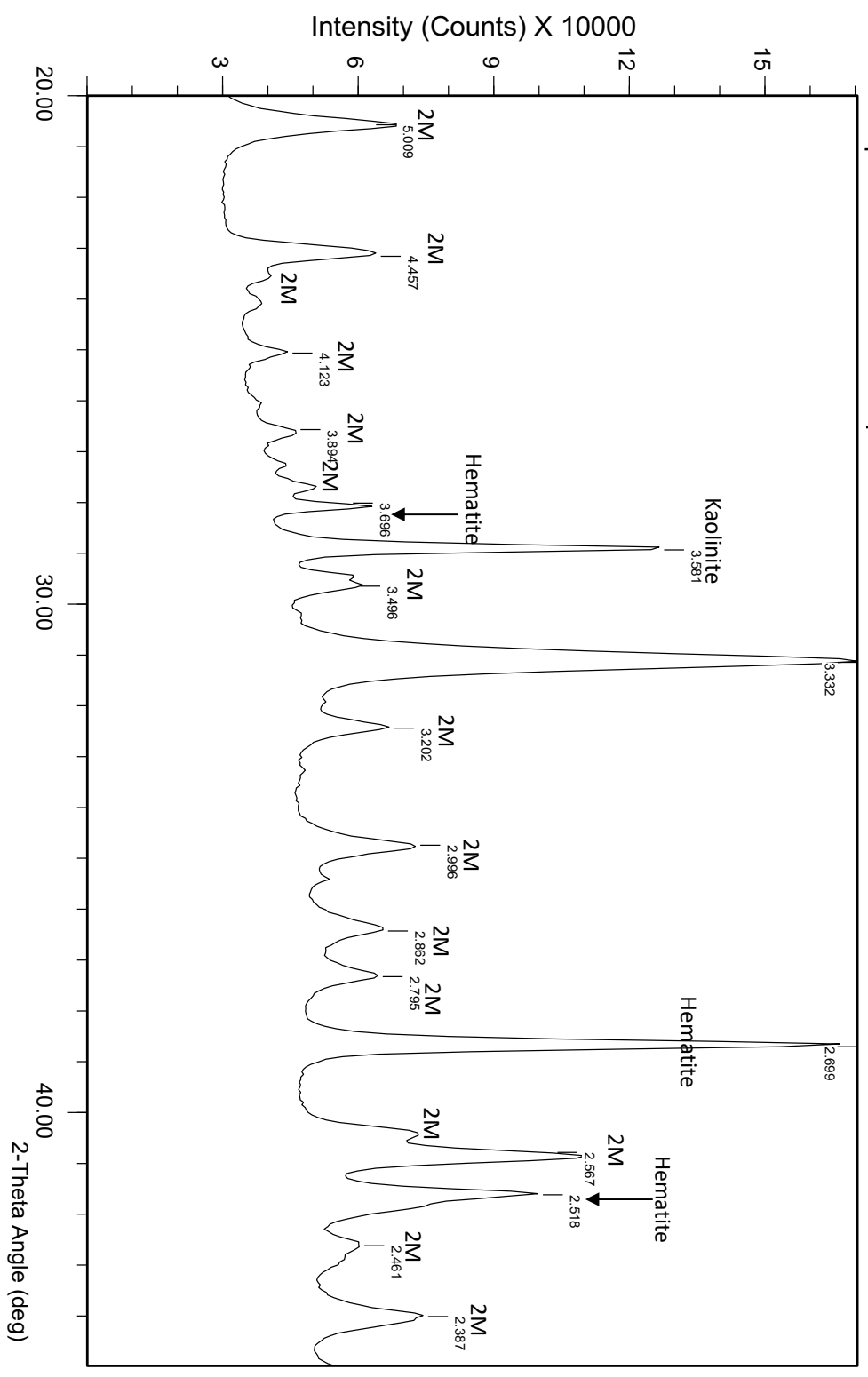
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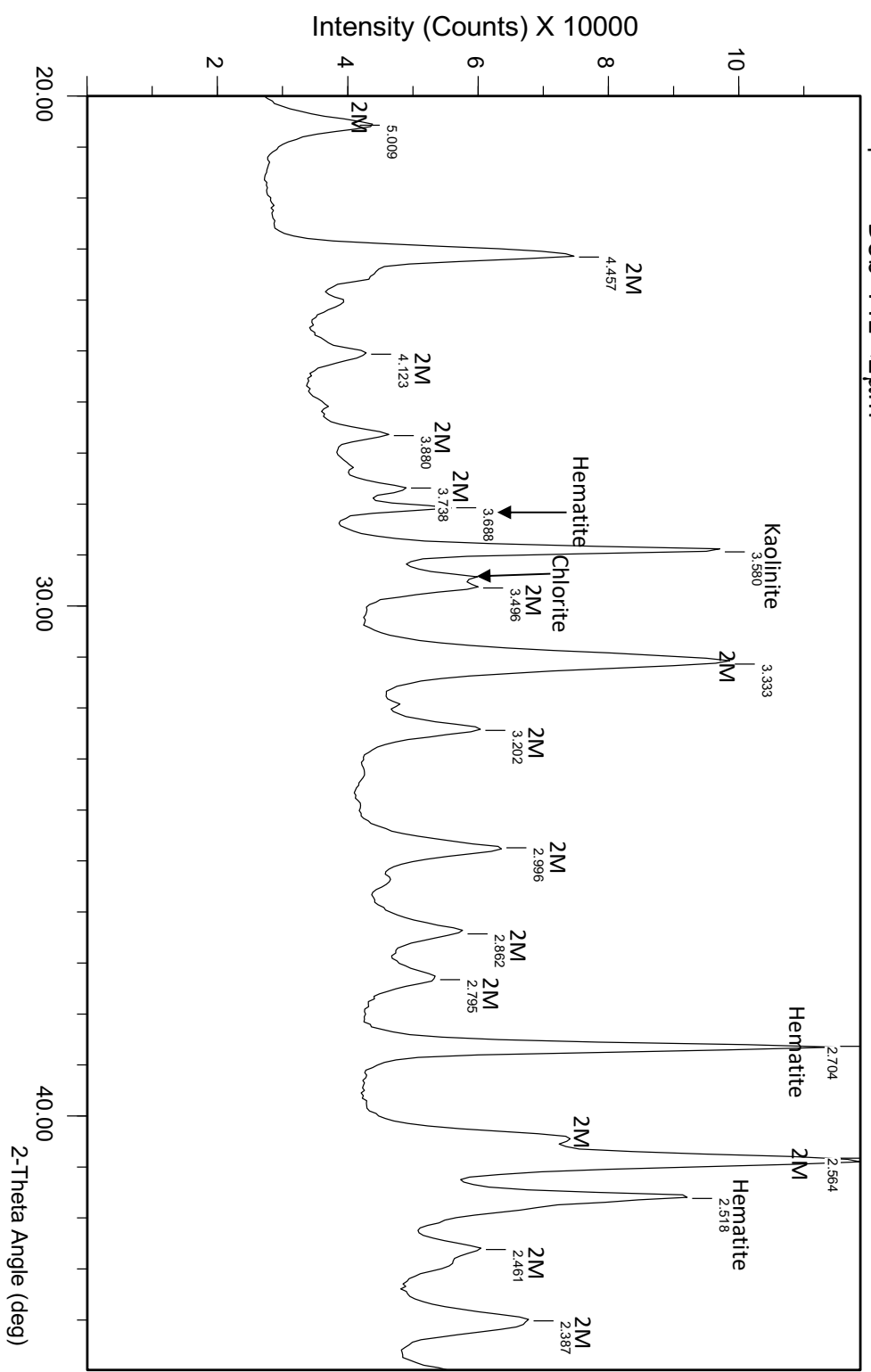
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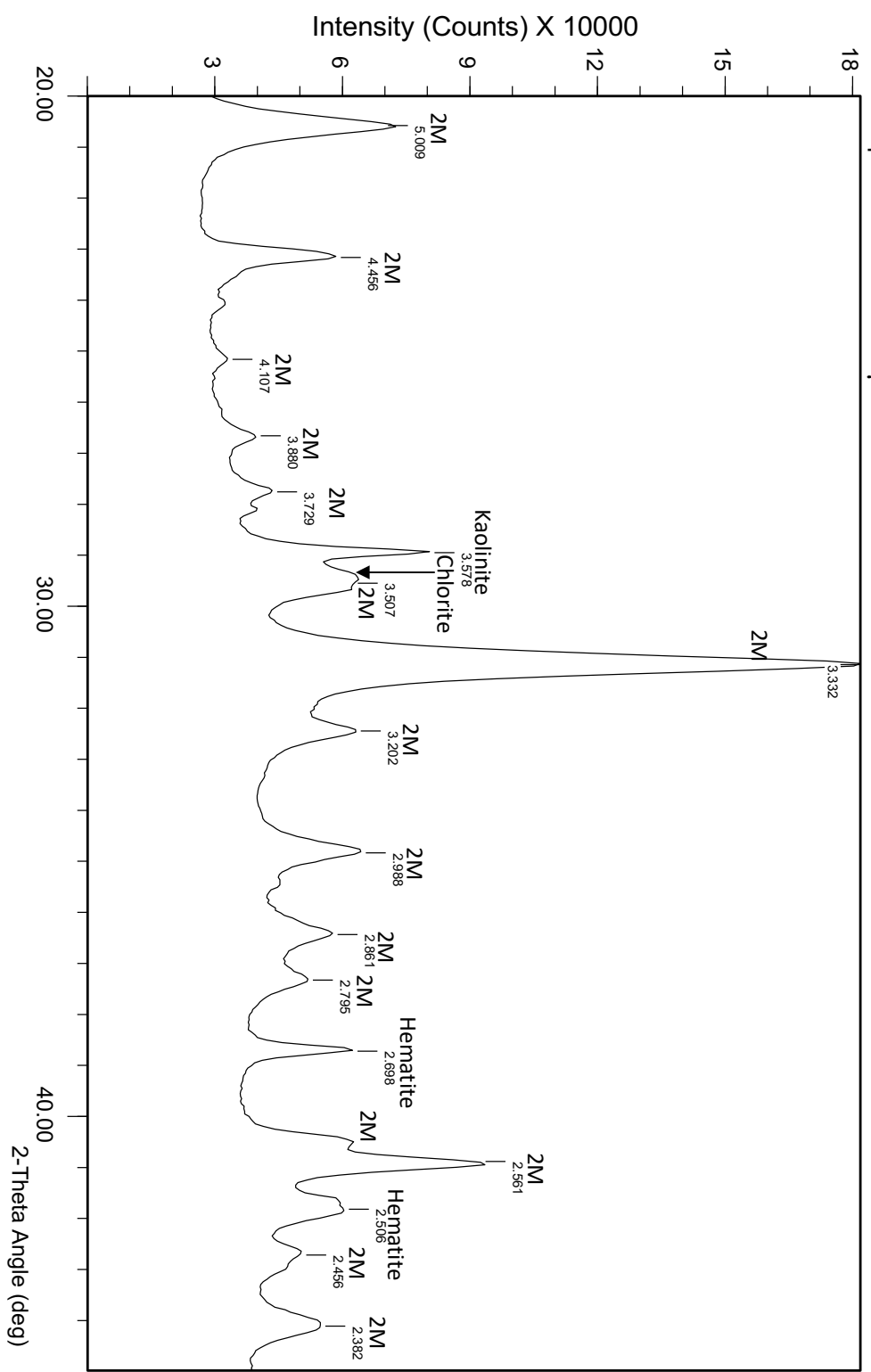
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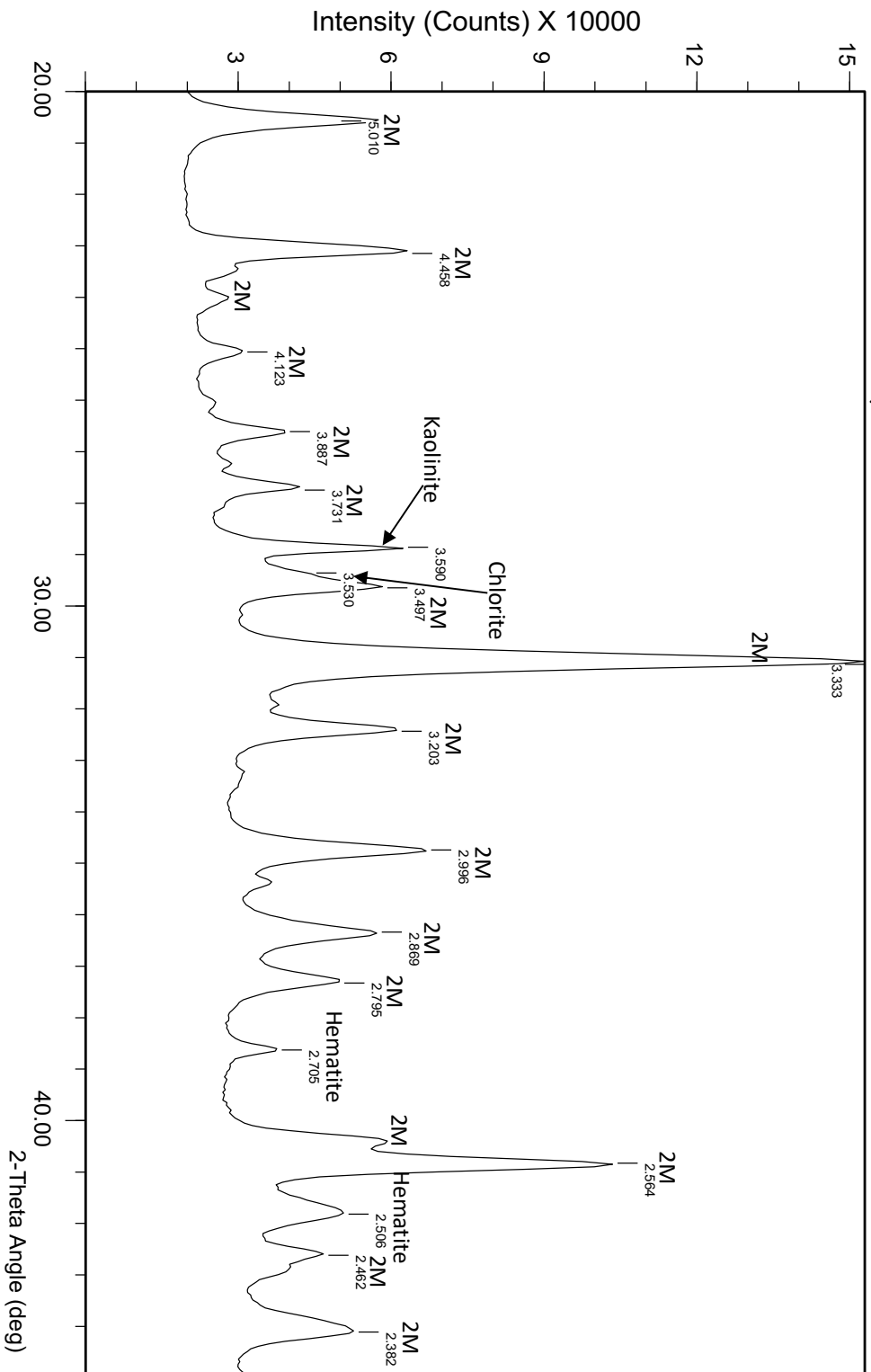
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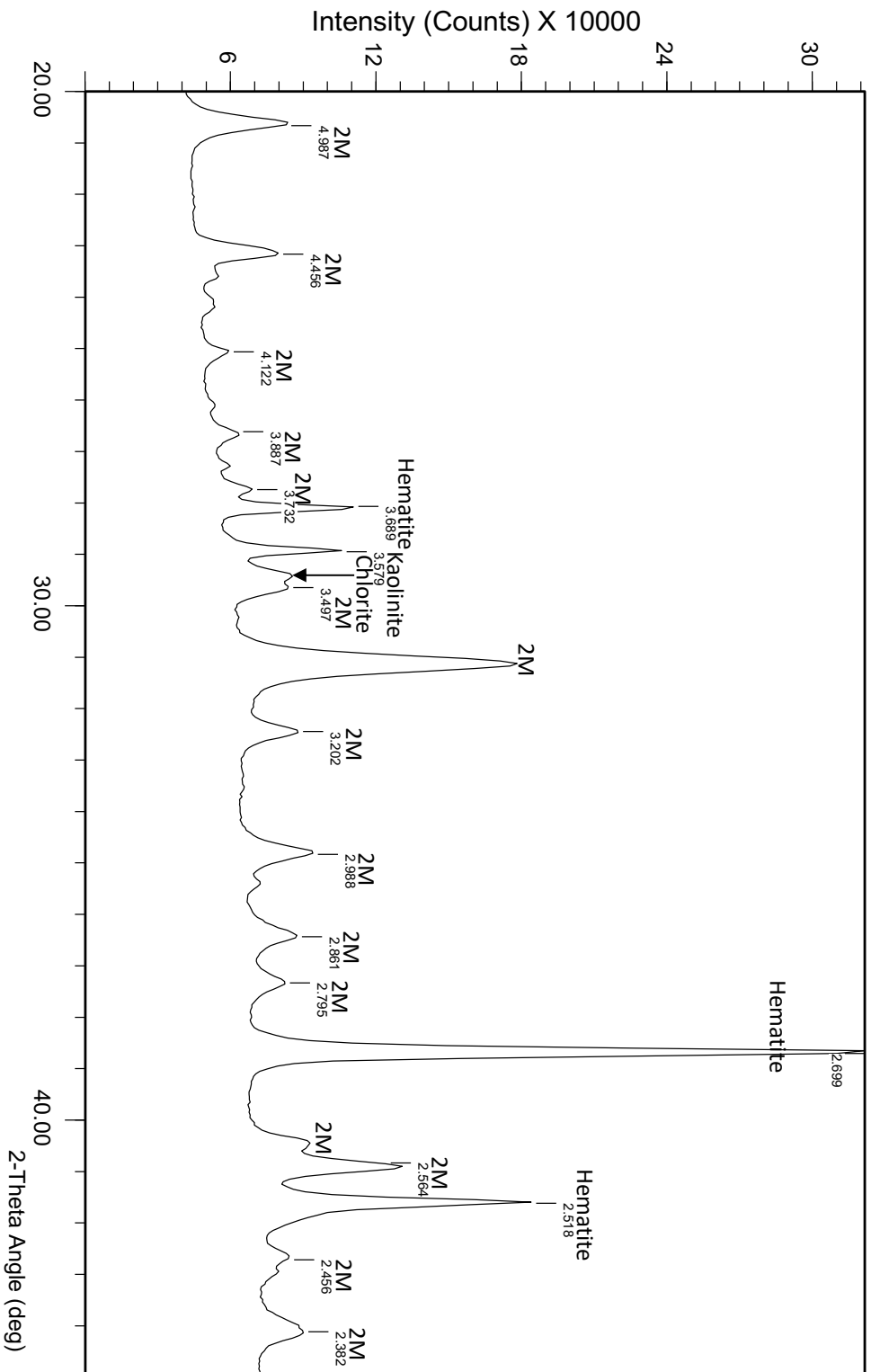
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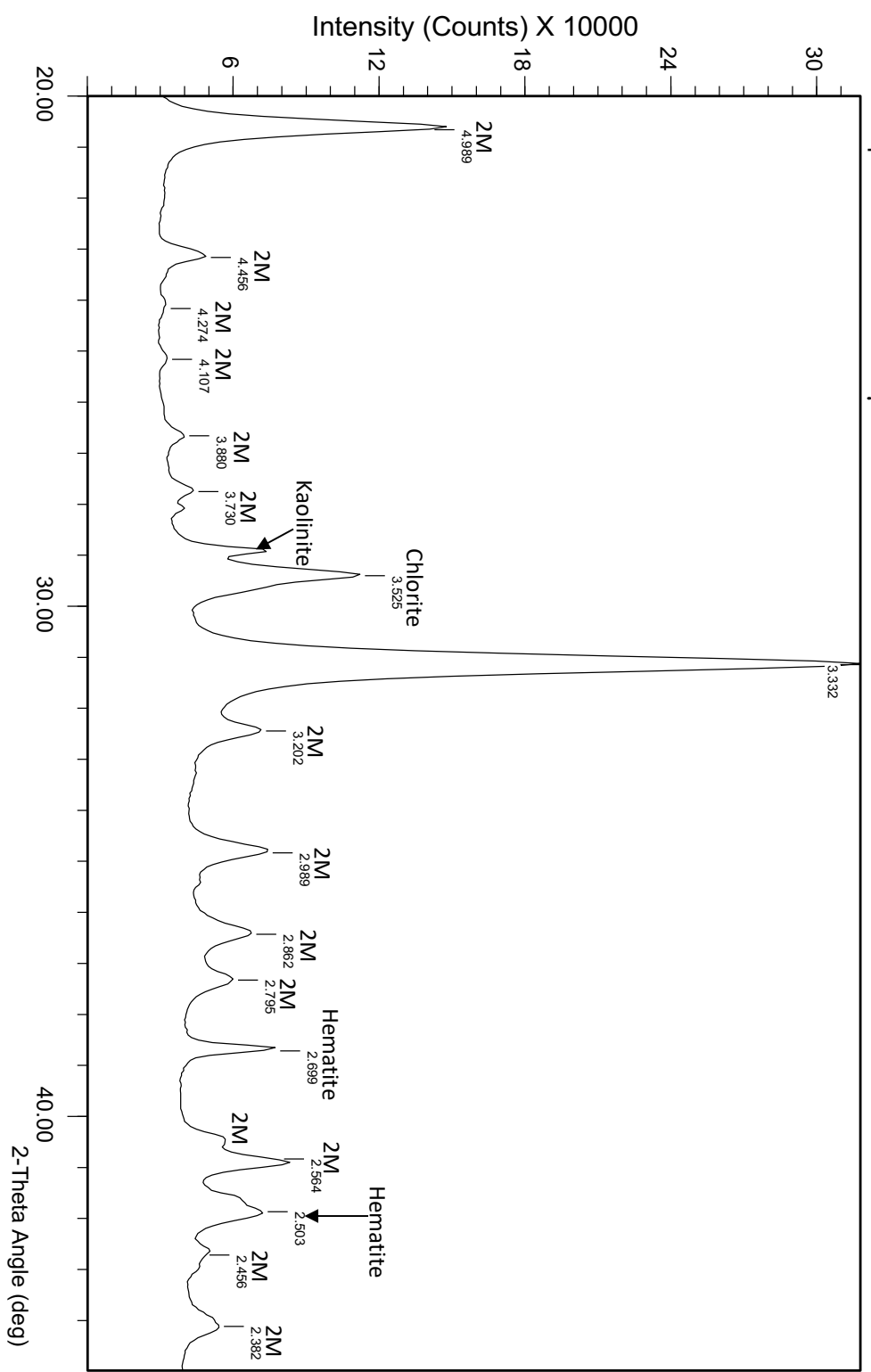
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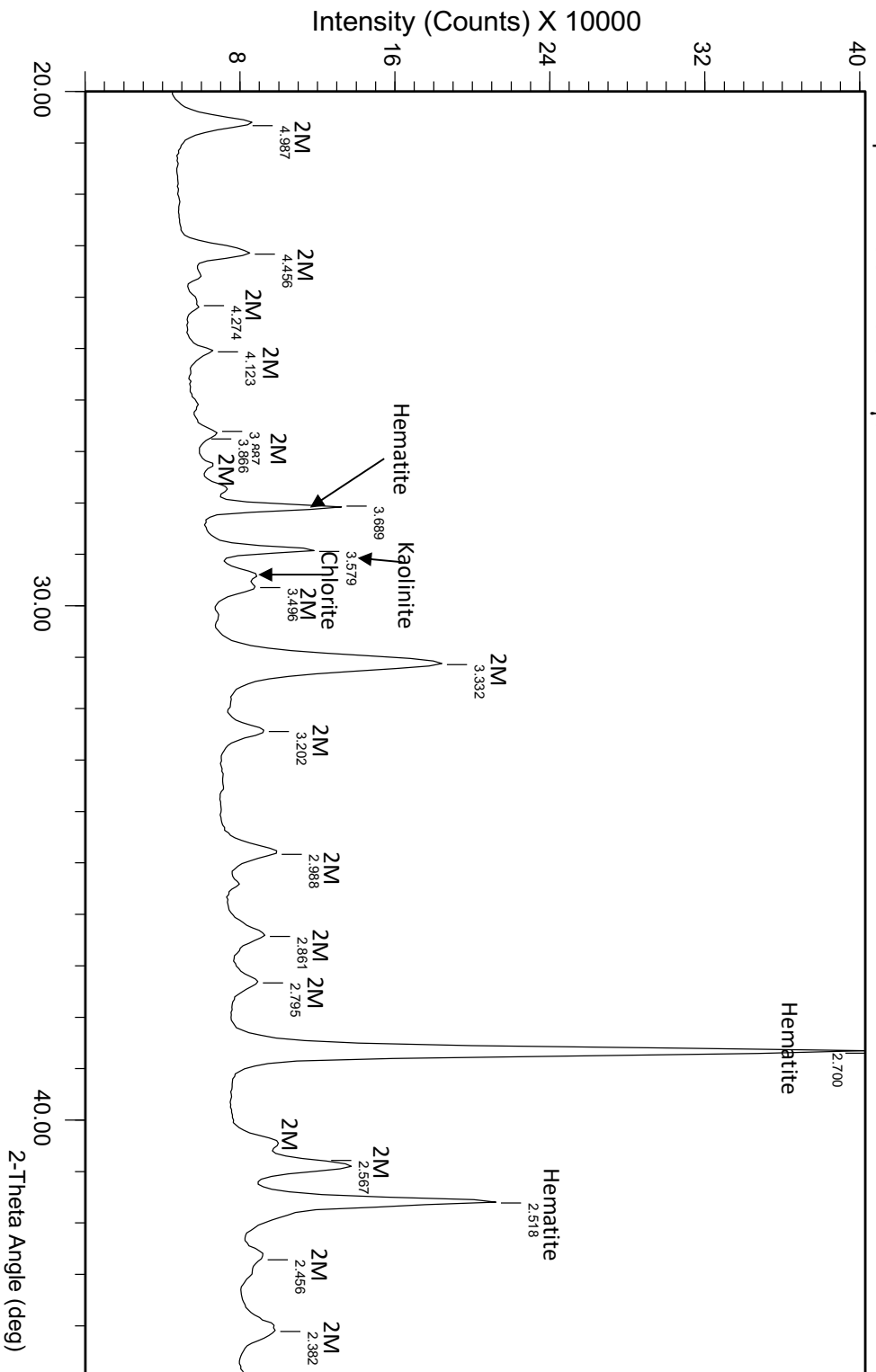
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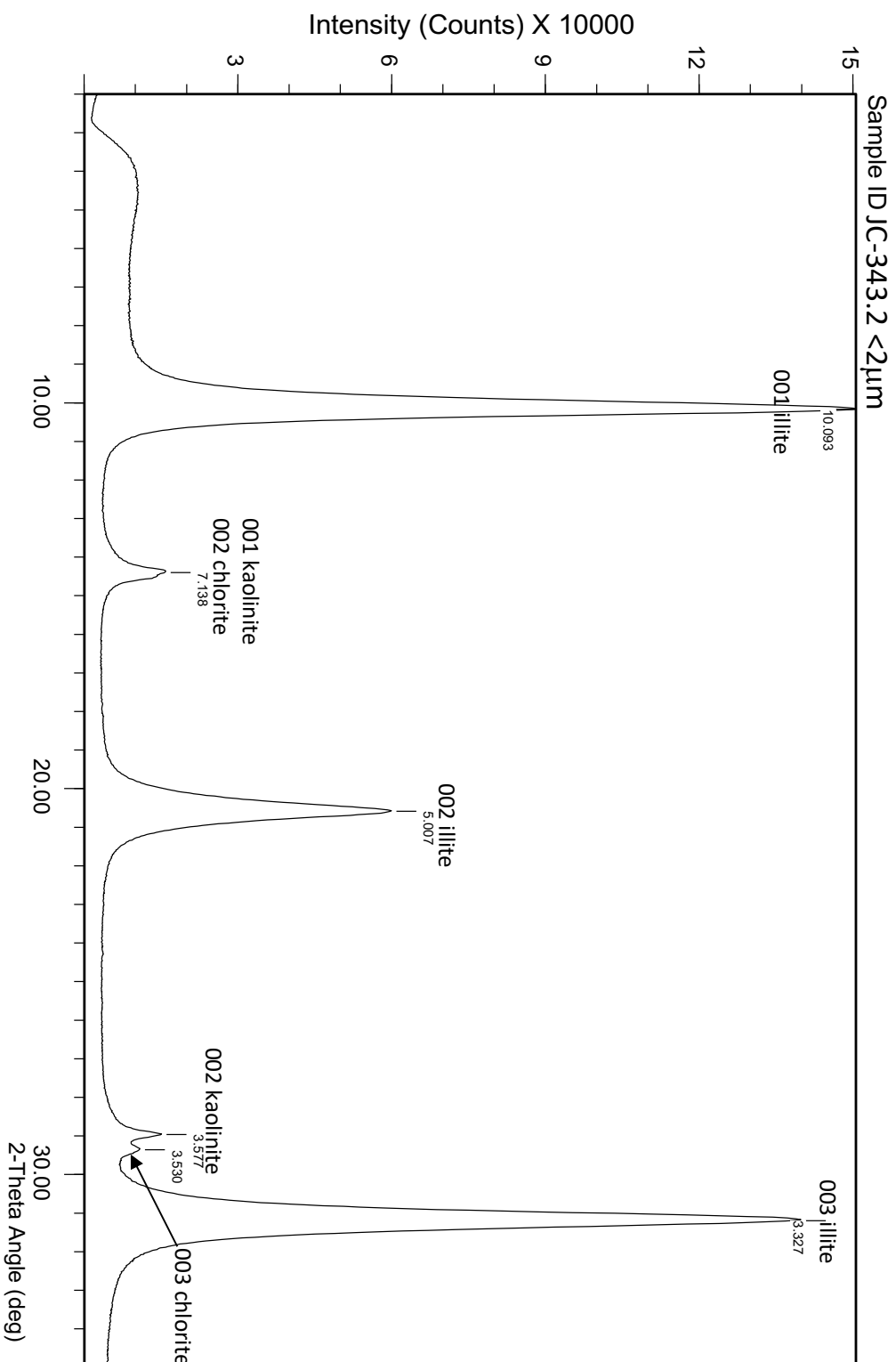
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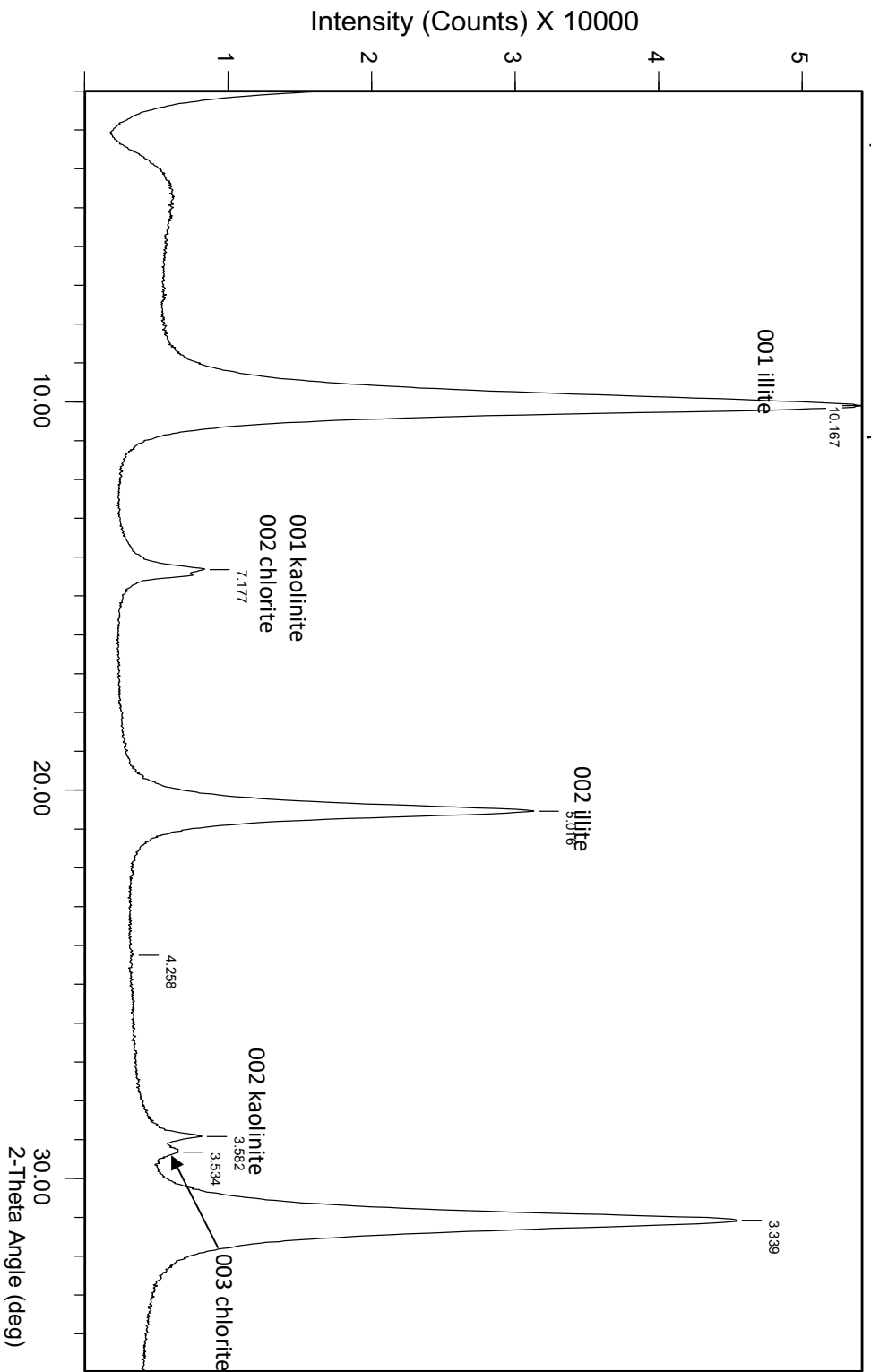
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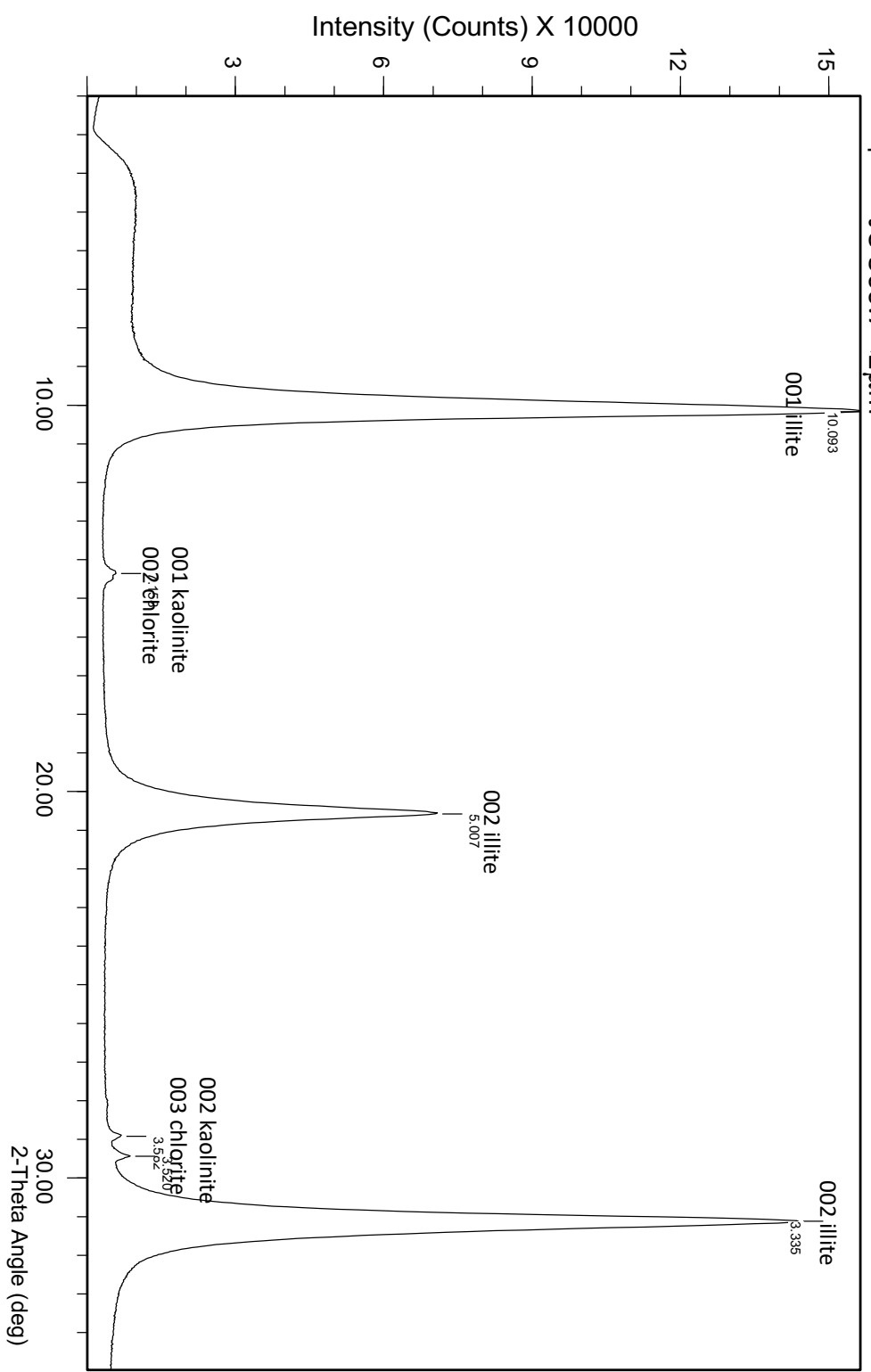
XRD PATTERN FOR AIR-DRIED ORIENTED CLAY FRACTIONS



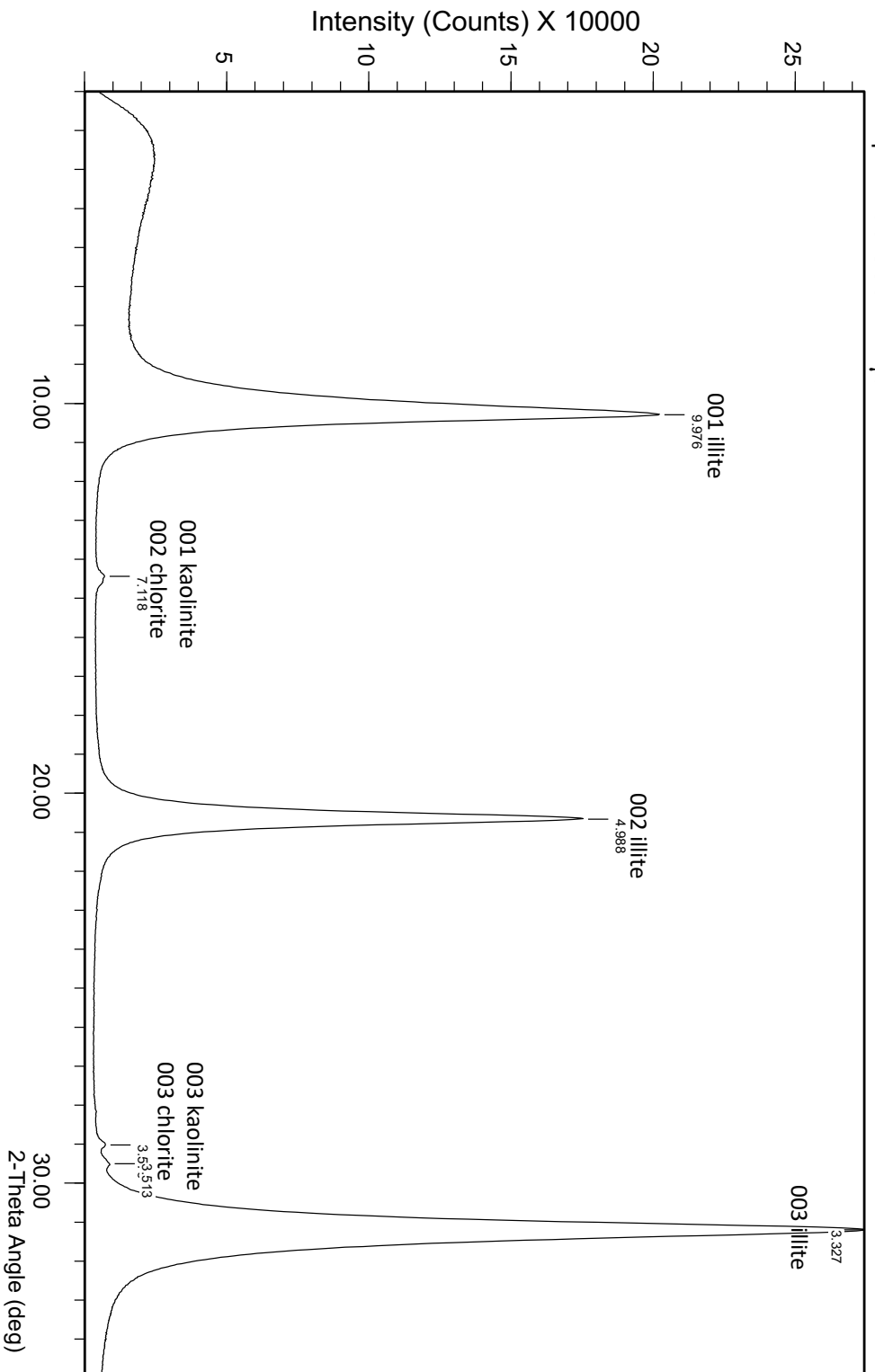
Sample ID JC-343.2 0.5-0.1µm



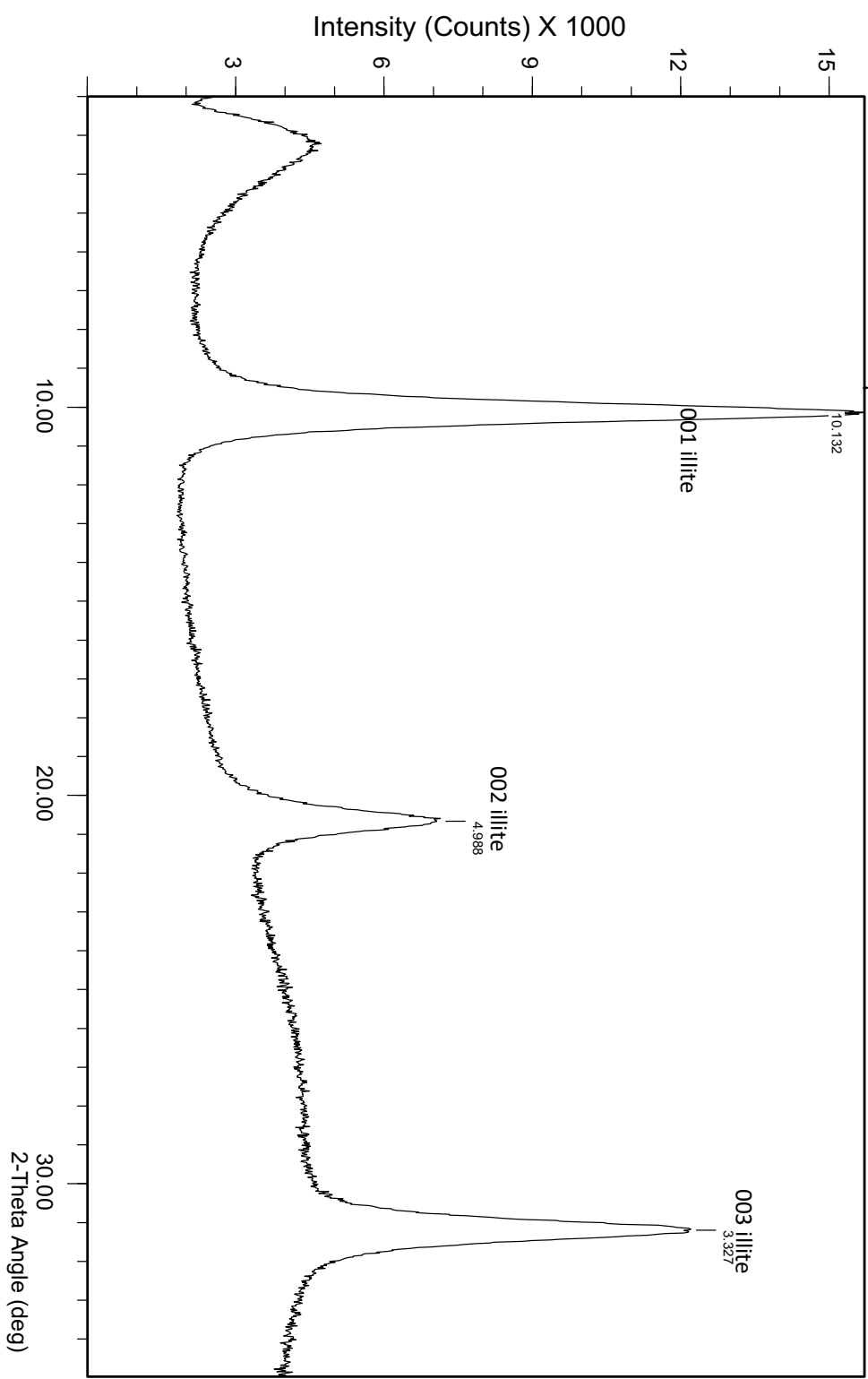
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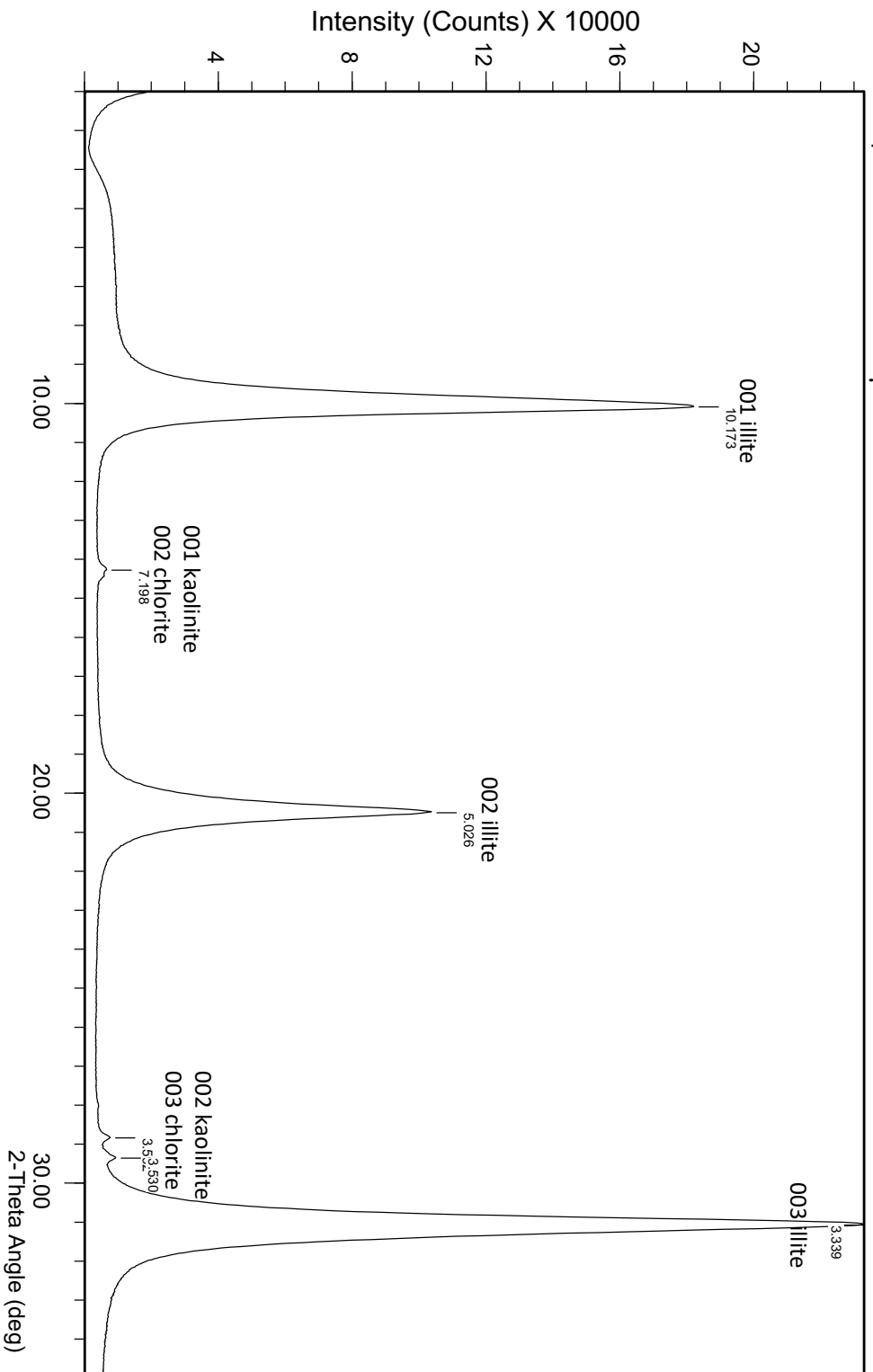
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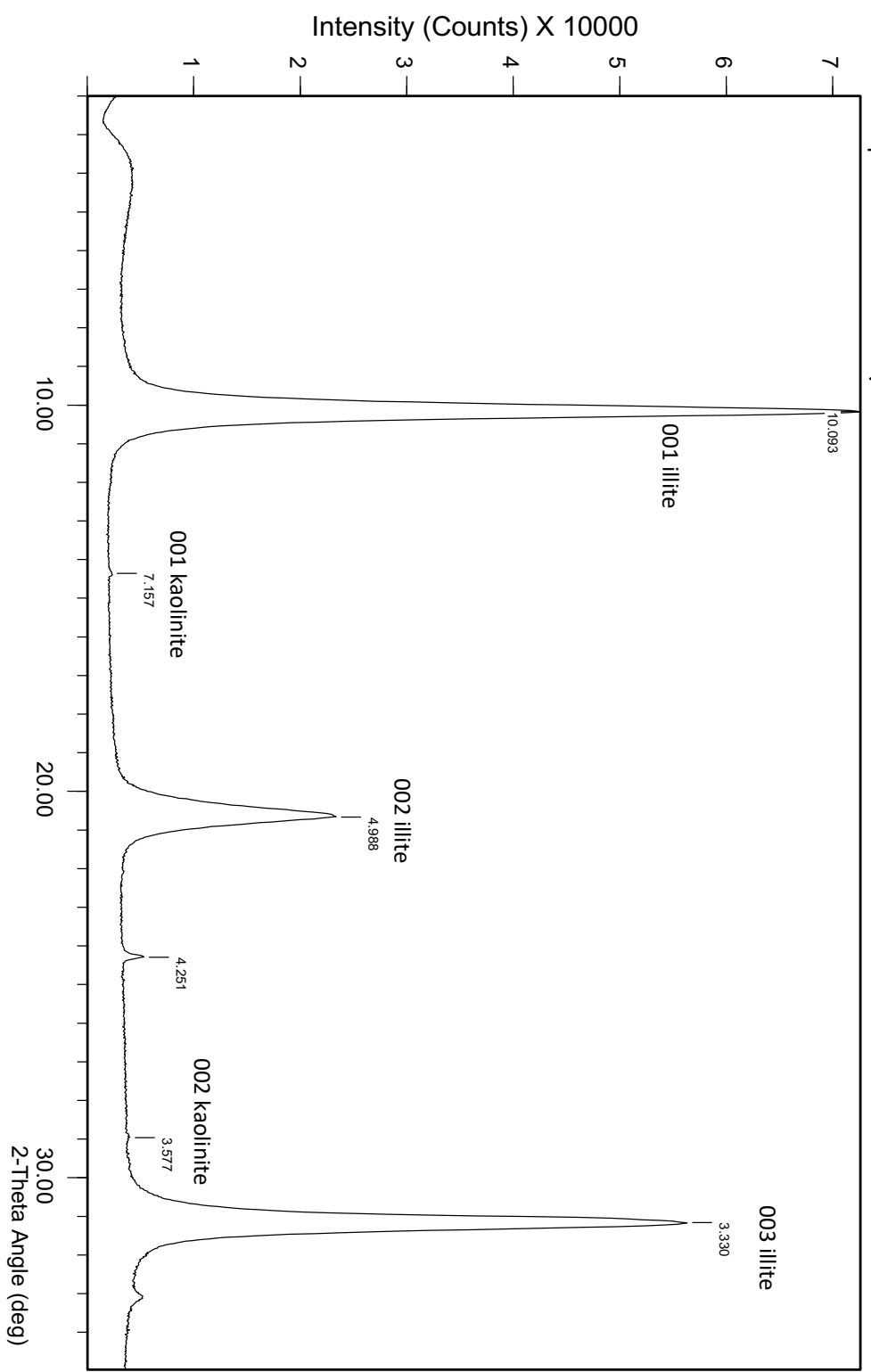
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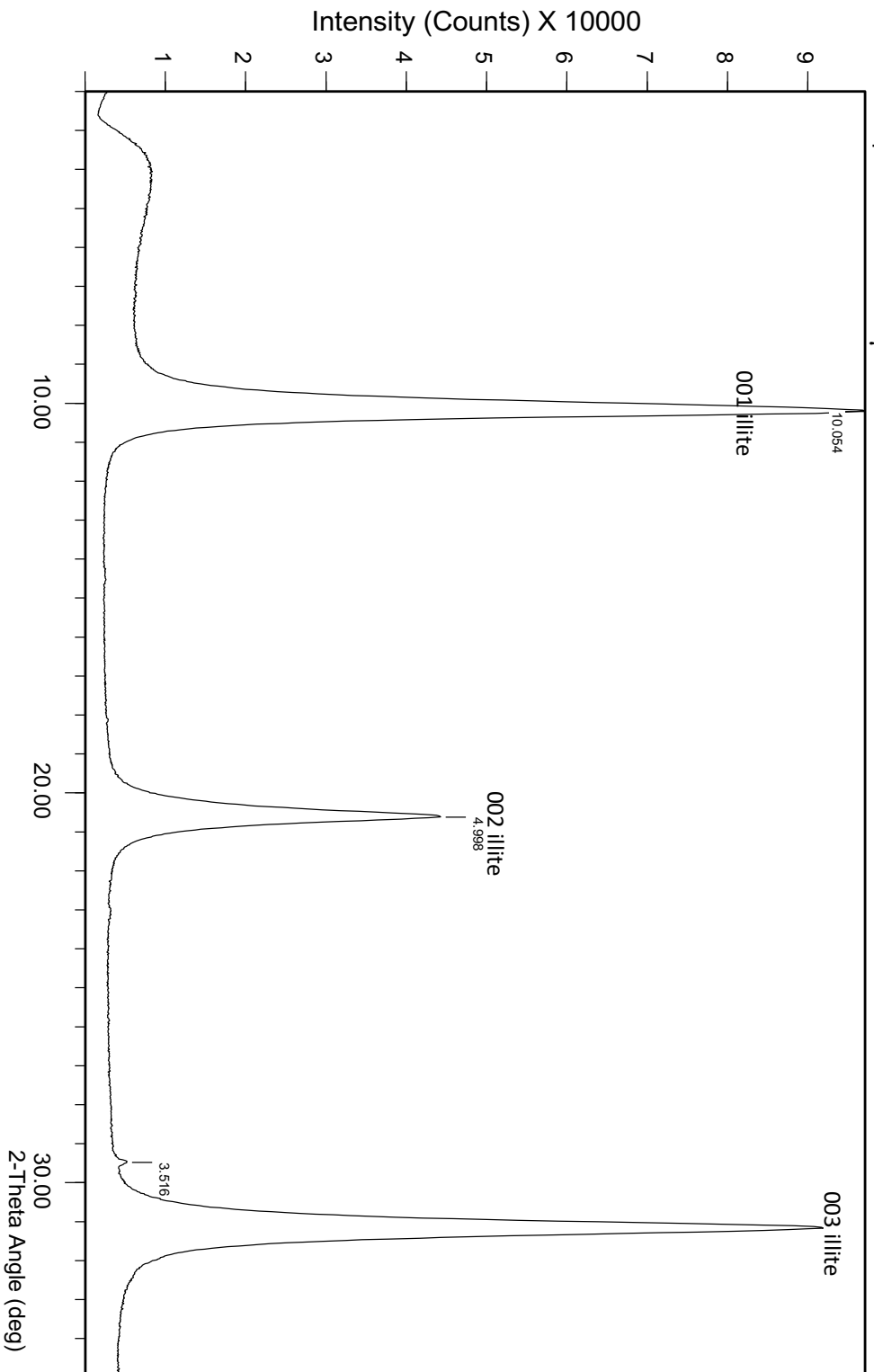
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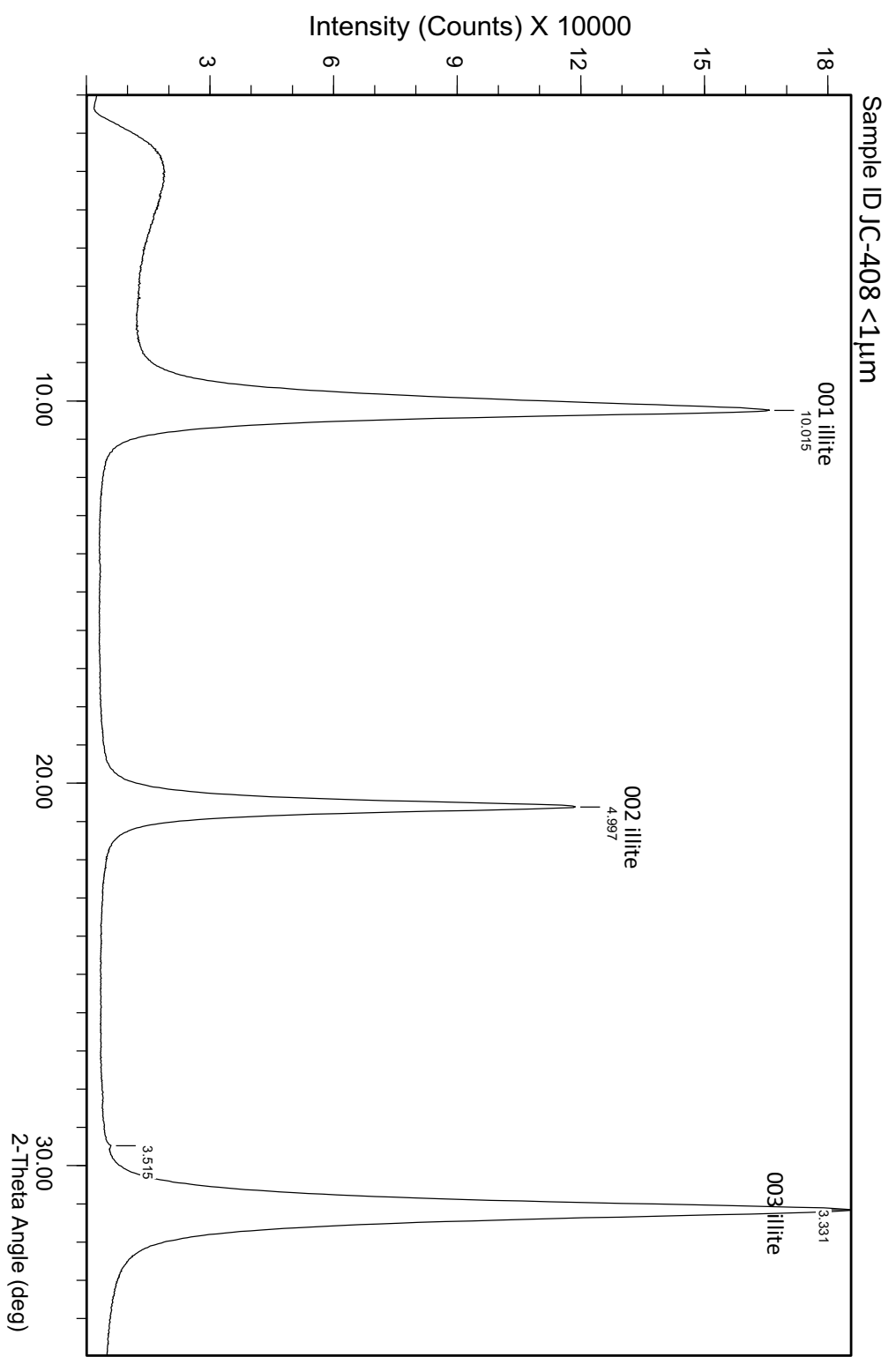


Sample ID JC-360.6<2µm – host rock

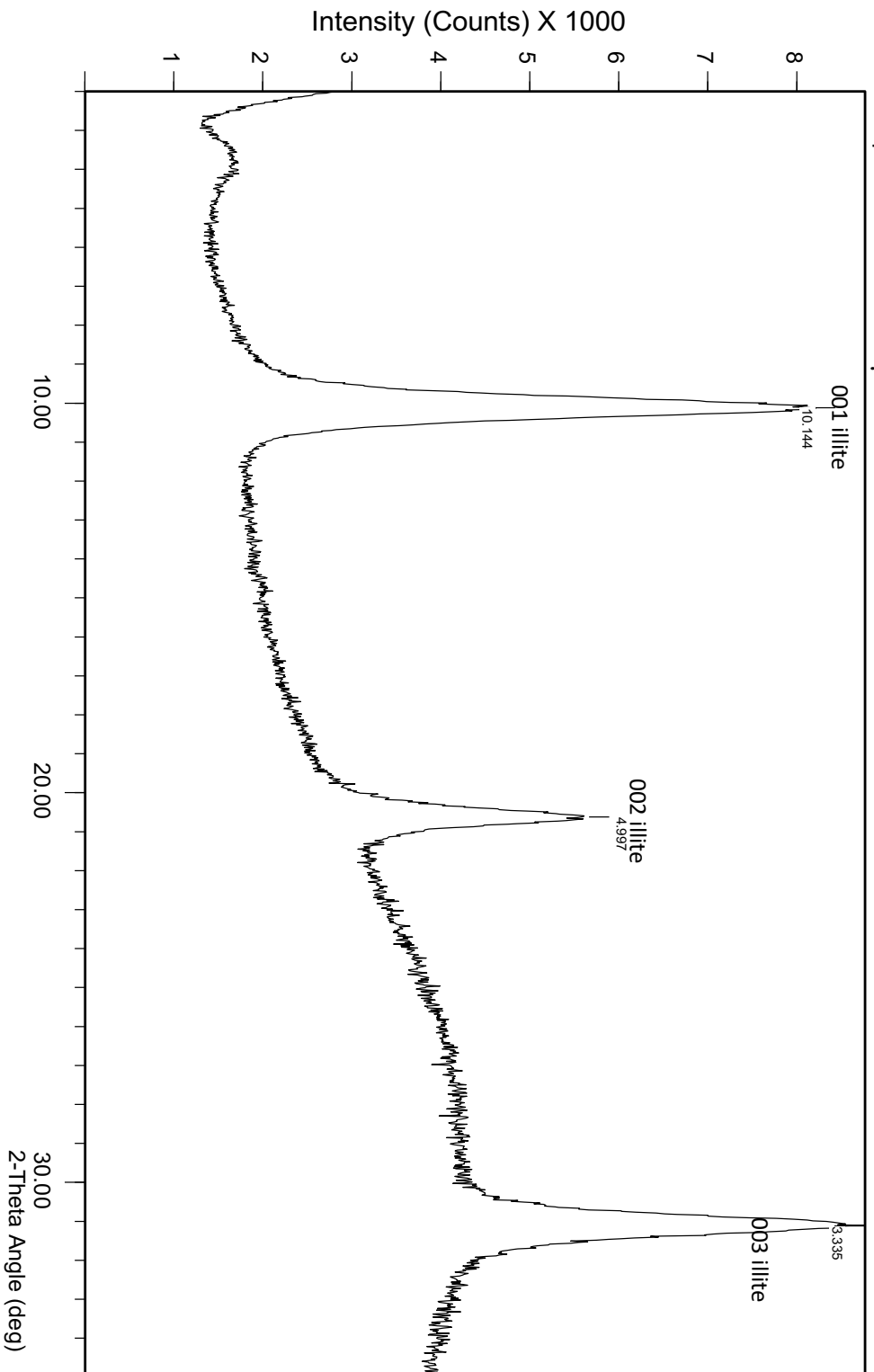


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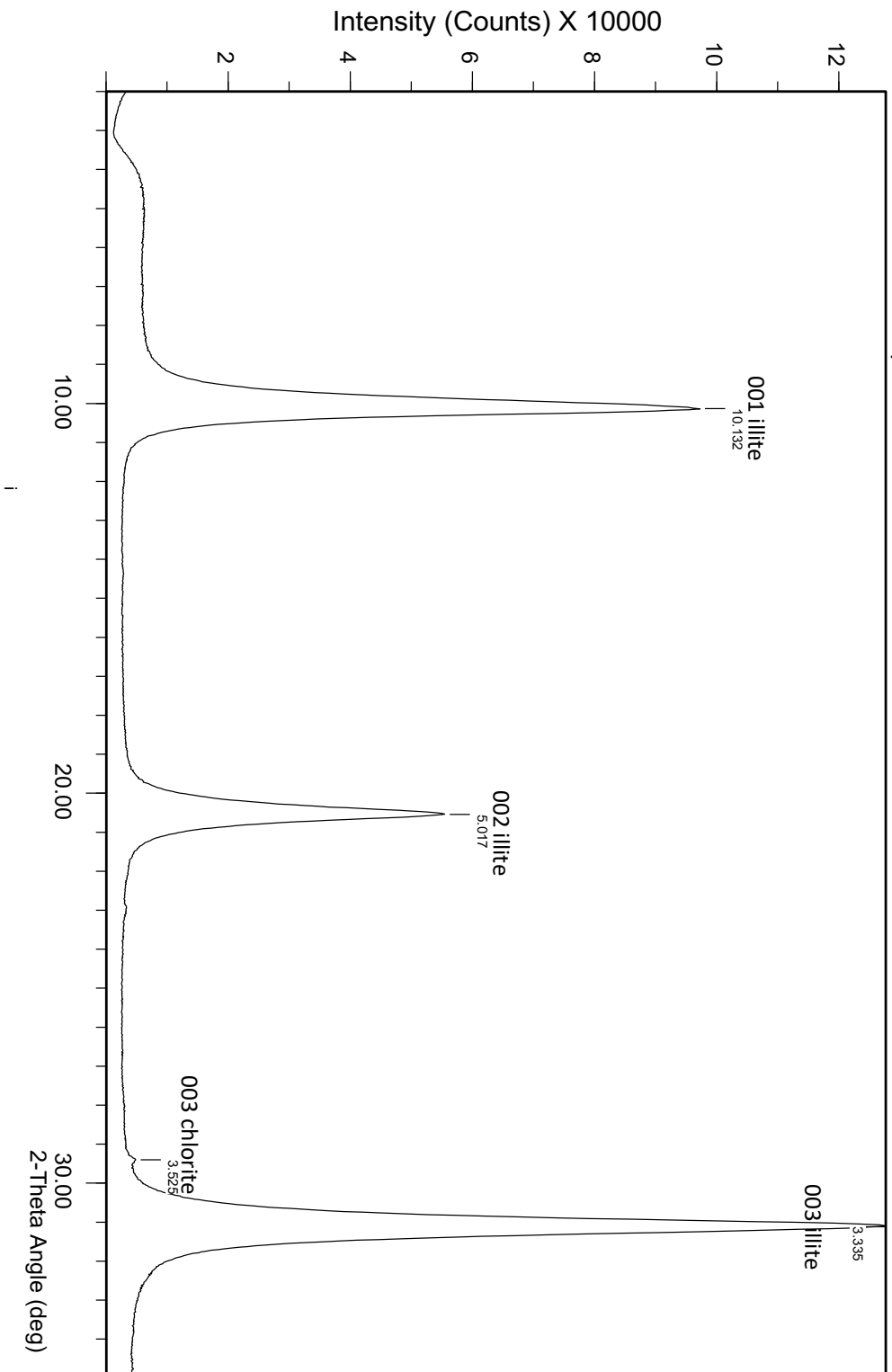




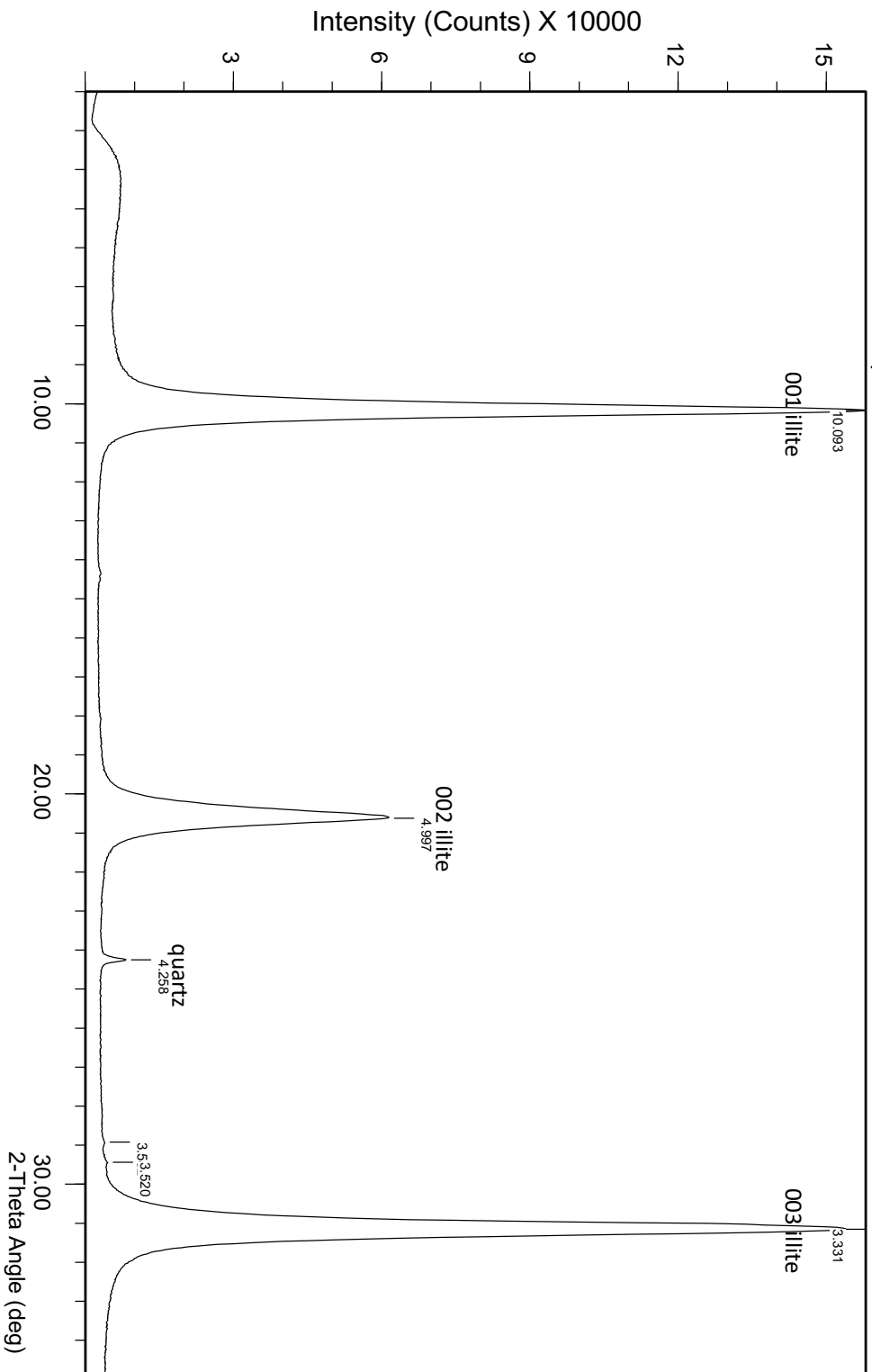
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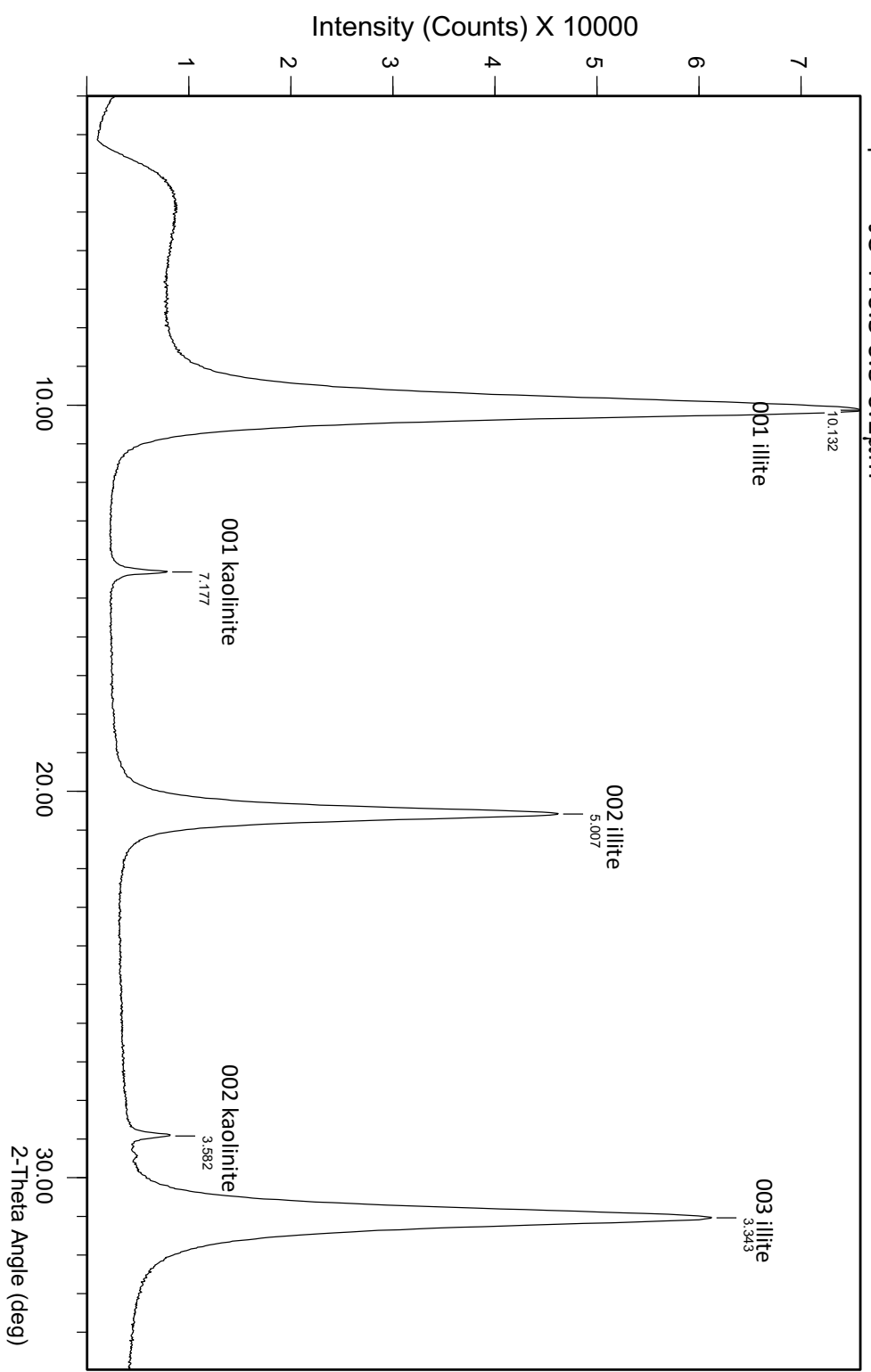
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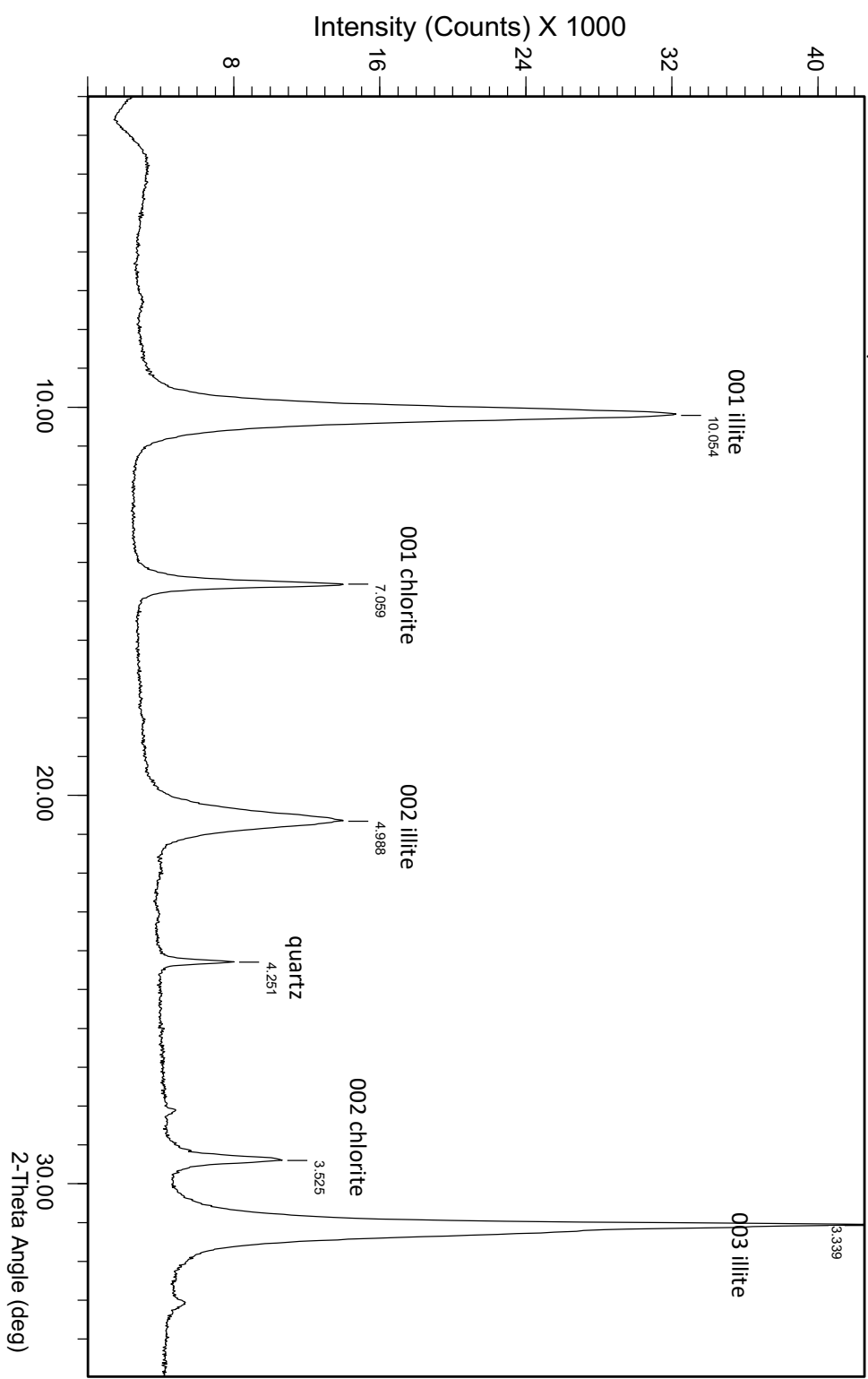
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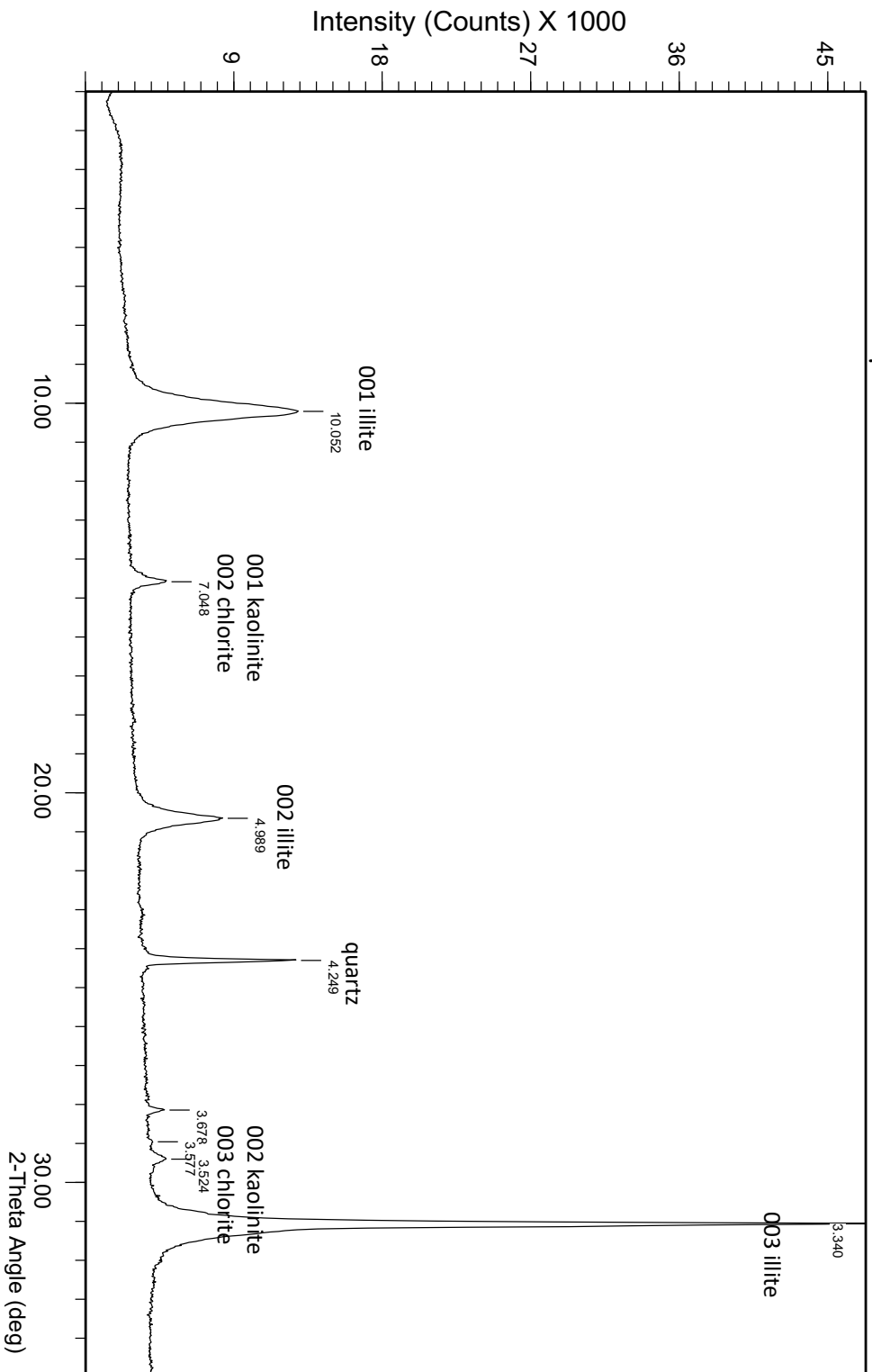
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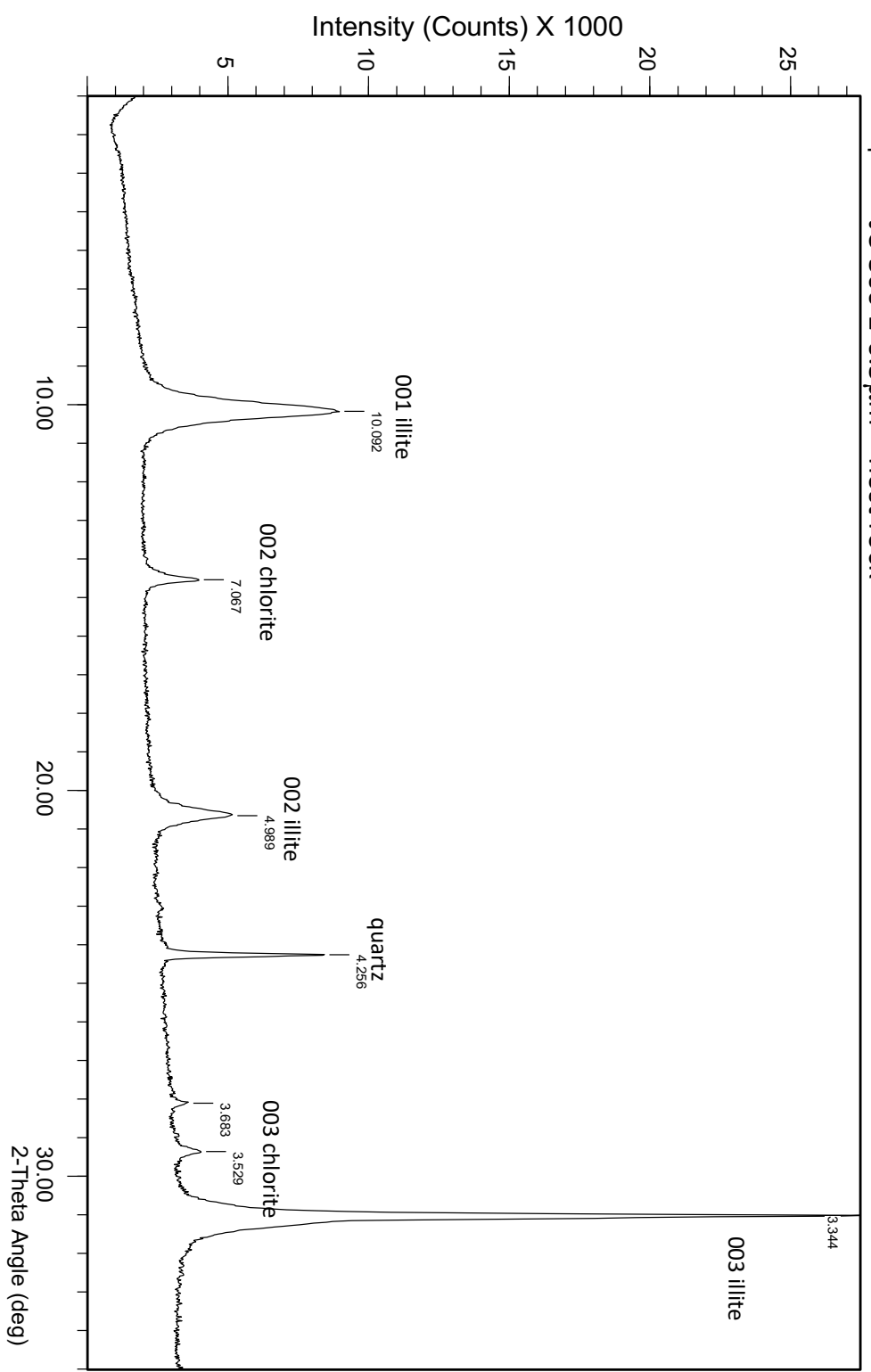
Sample ID JC-500 <2µm – host rock



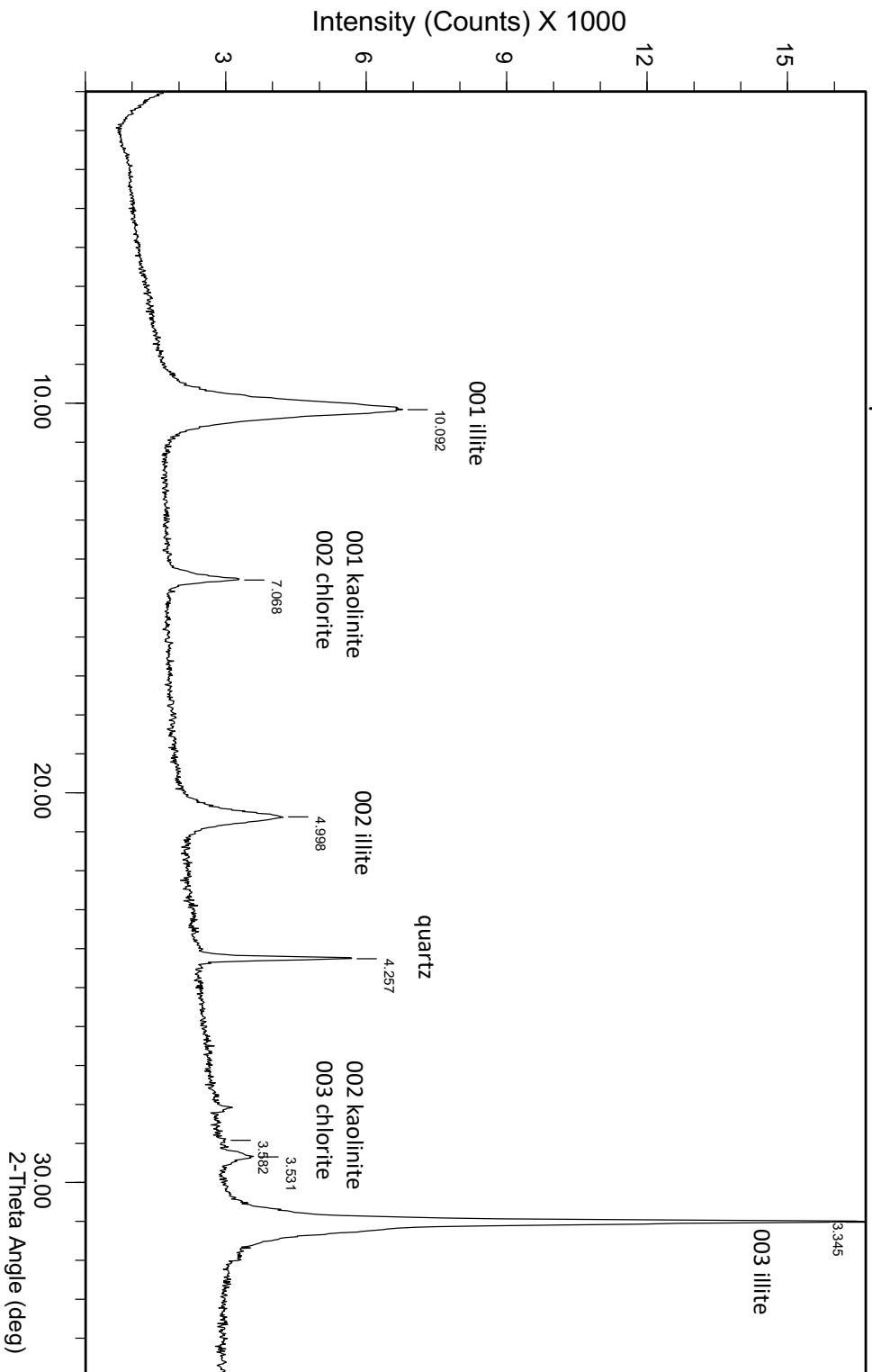
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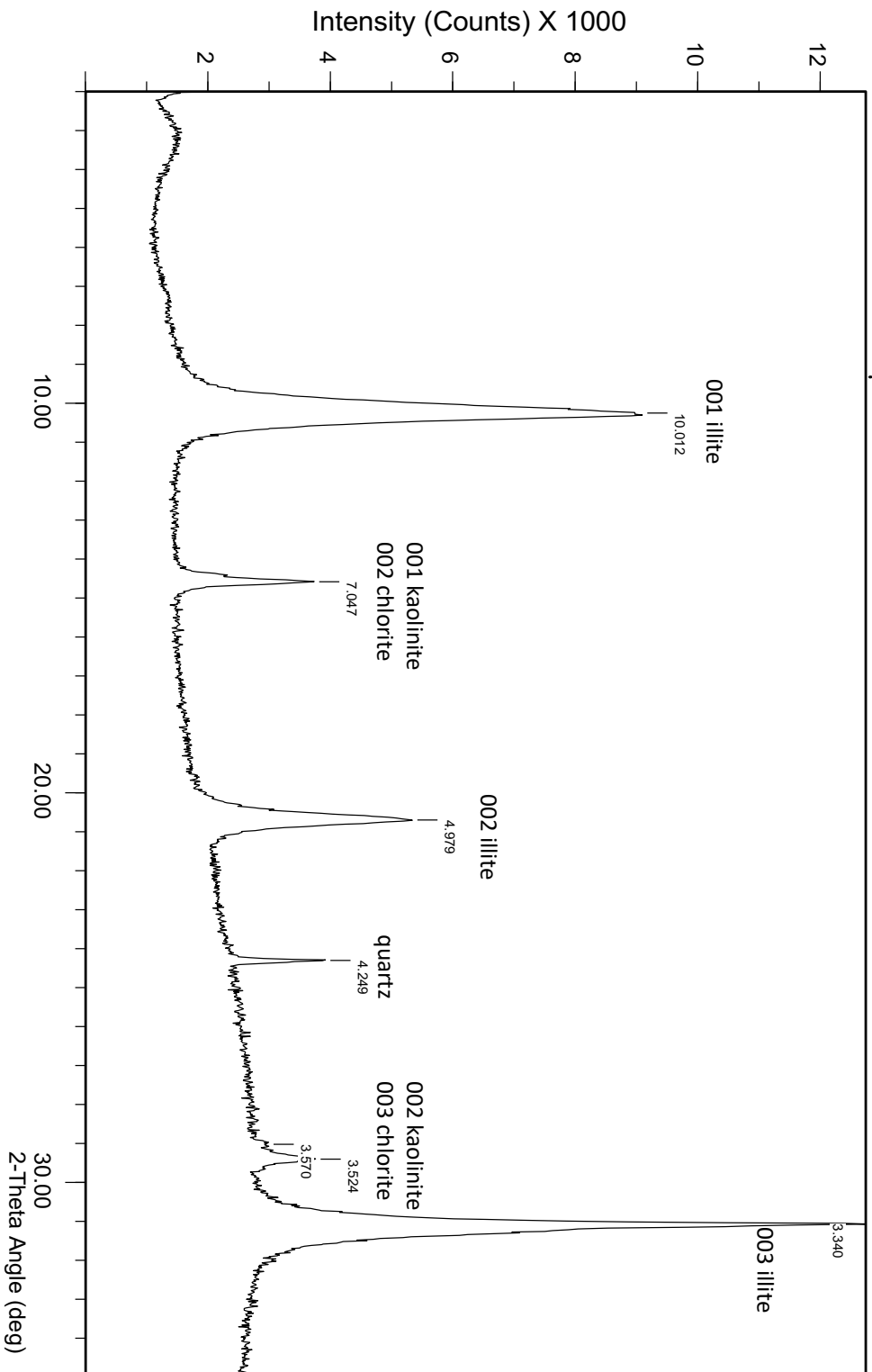
Sample ID JC-500 1-0.5µm – host rock



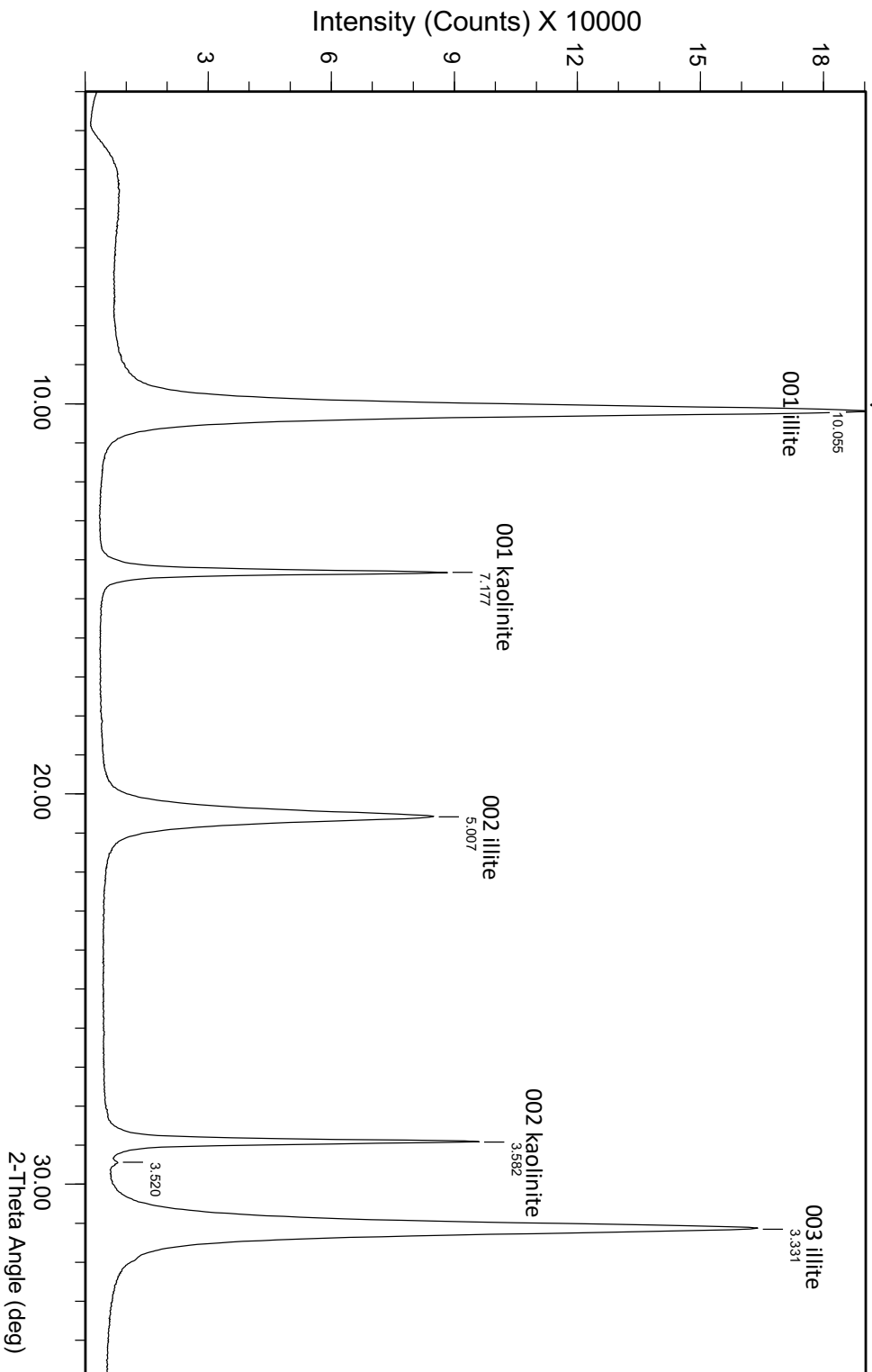
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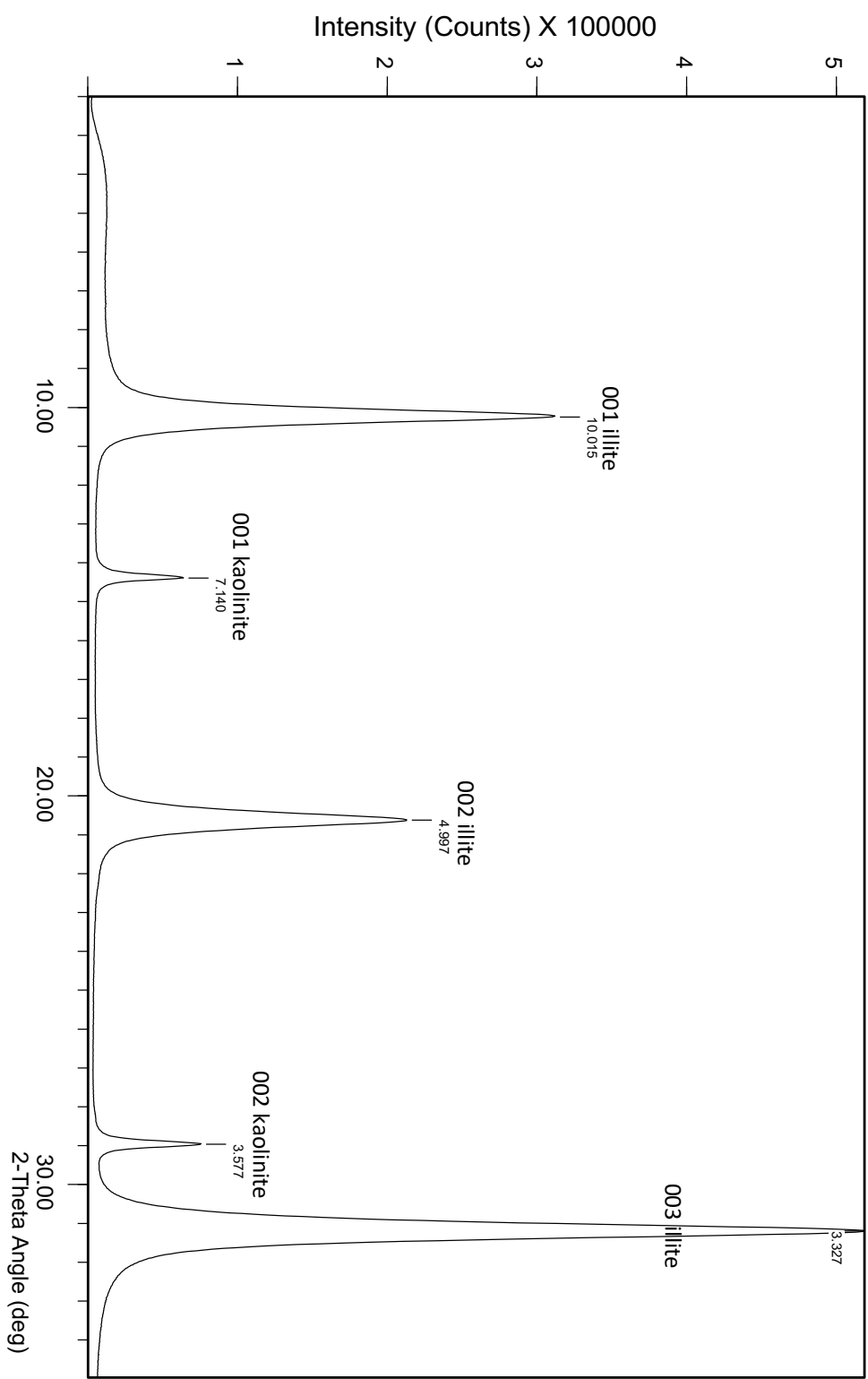
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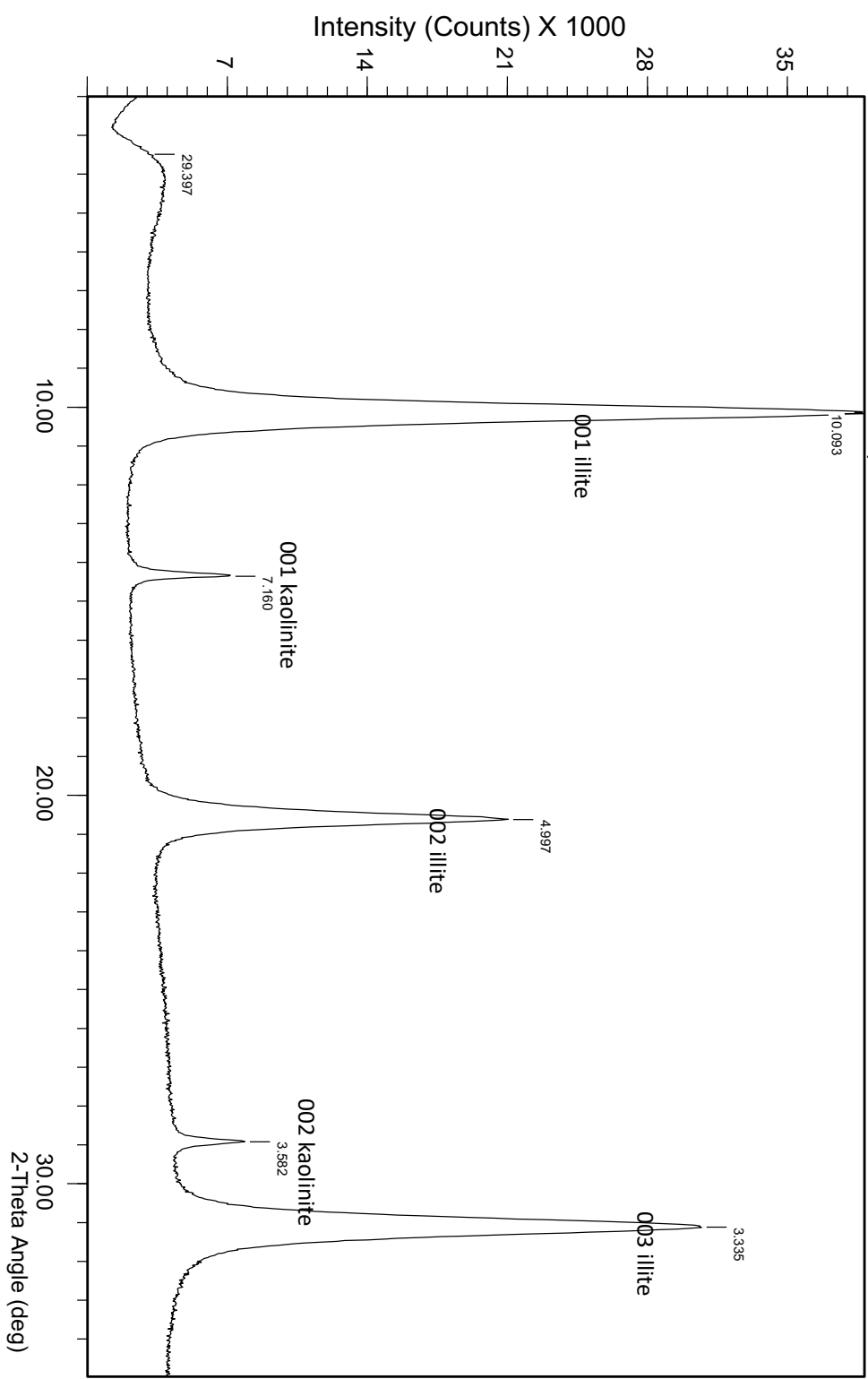
Sample ID Dob-389.6 <2µm



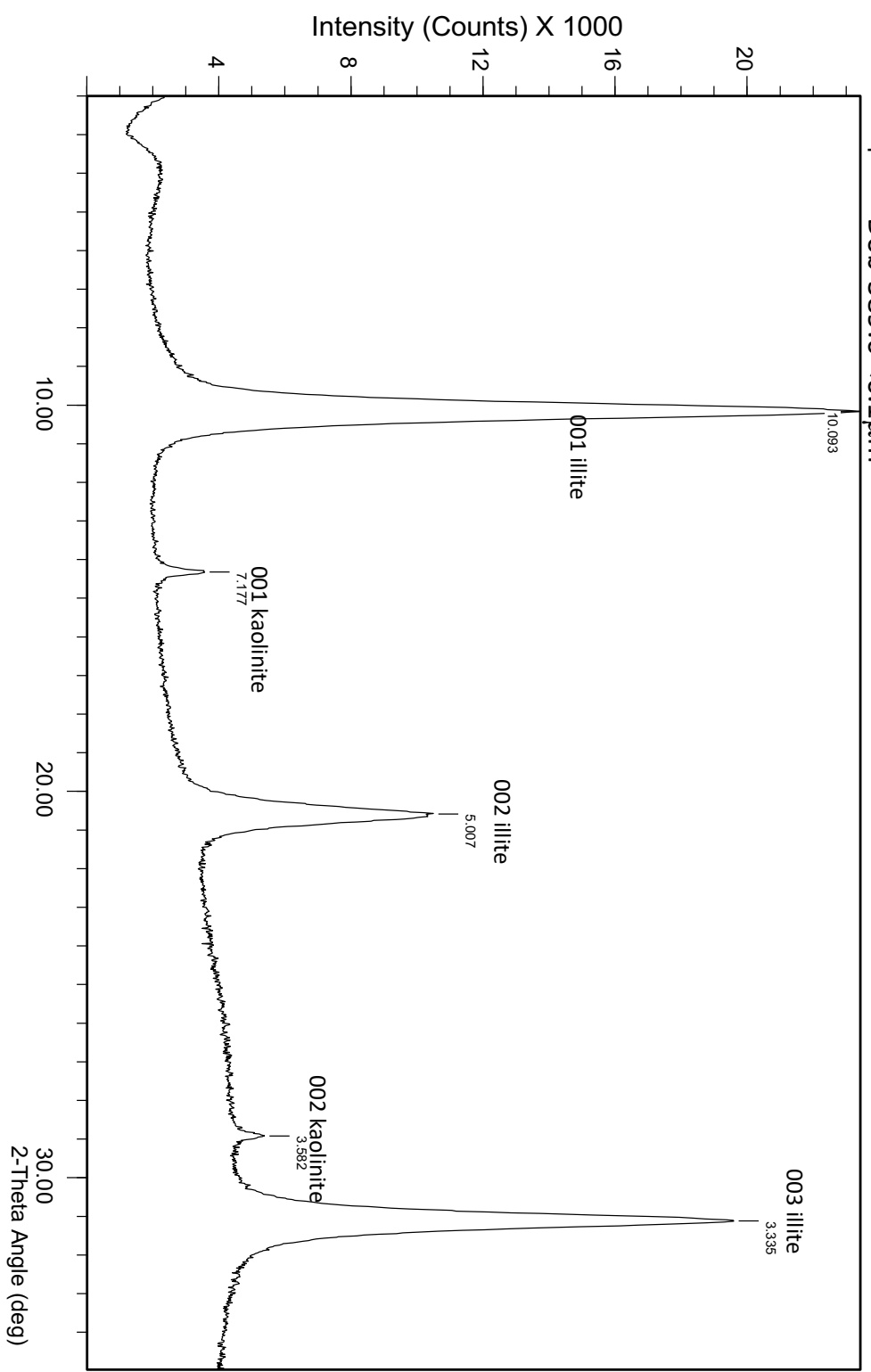
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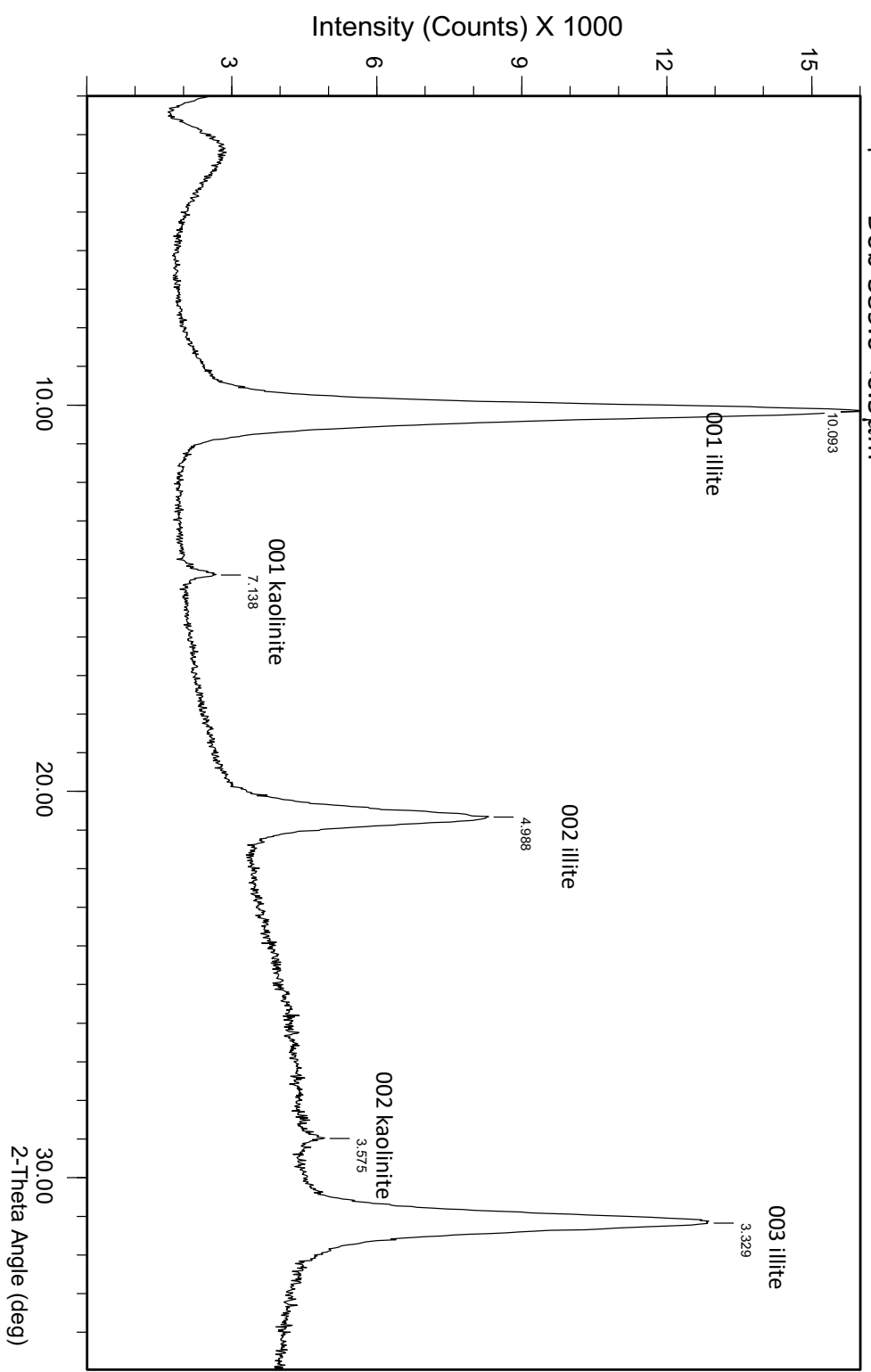
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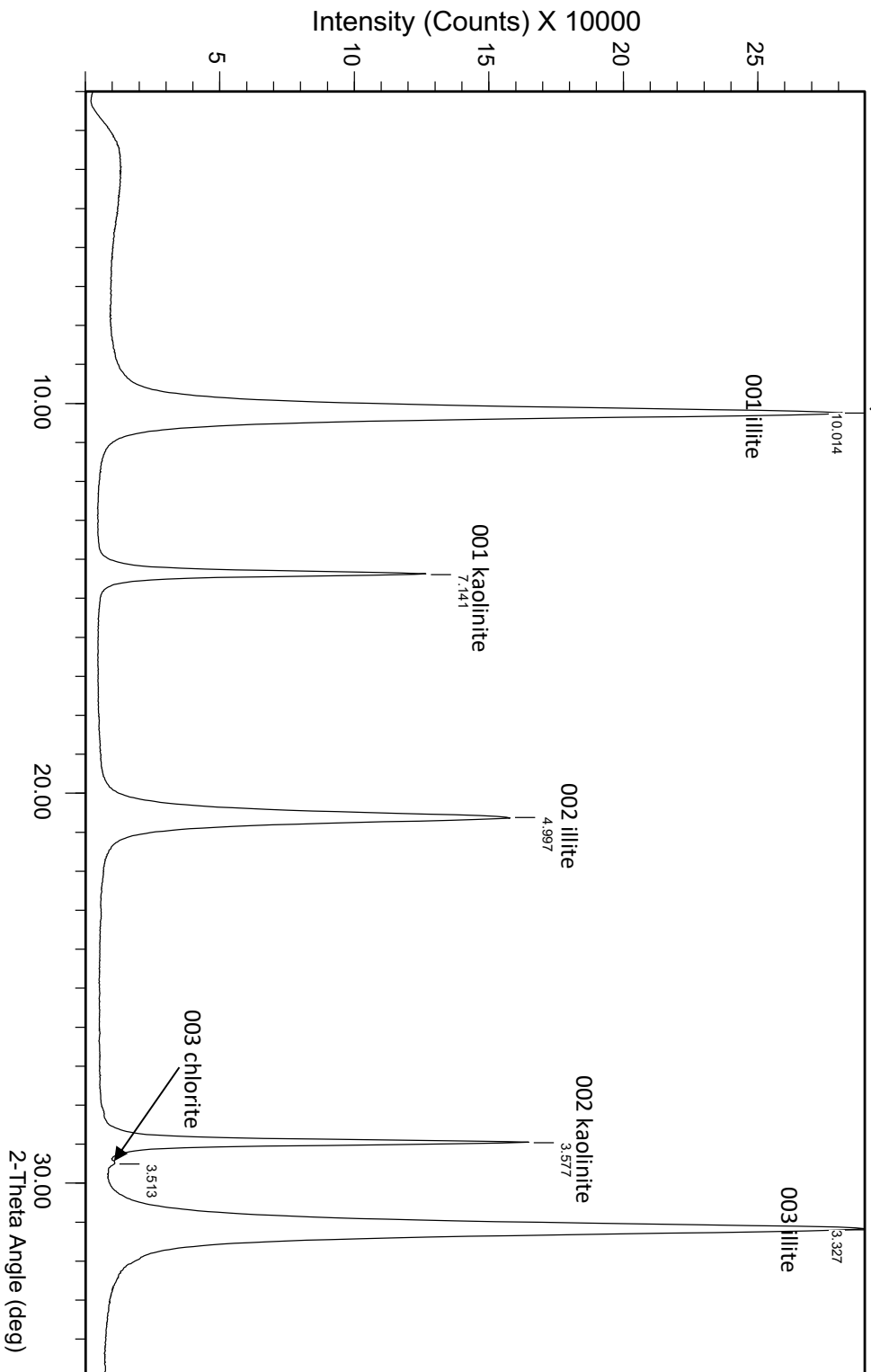
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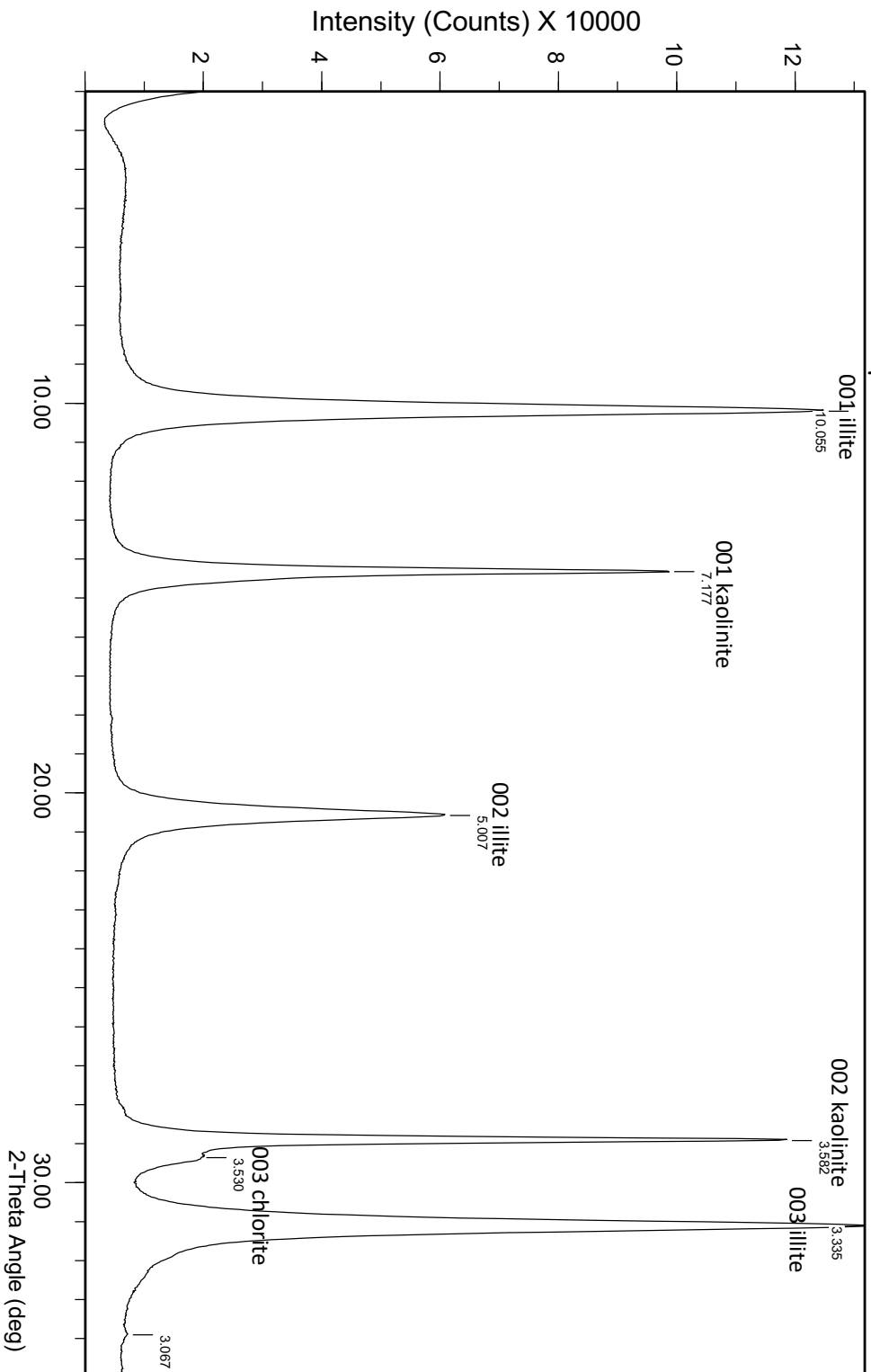
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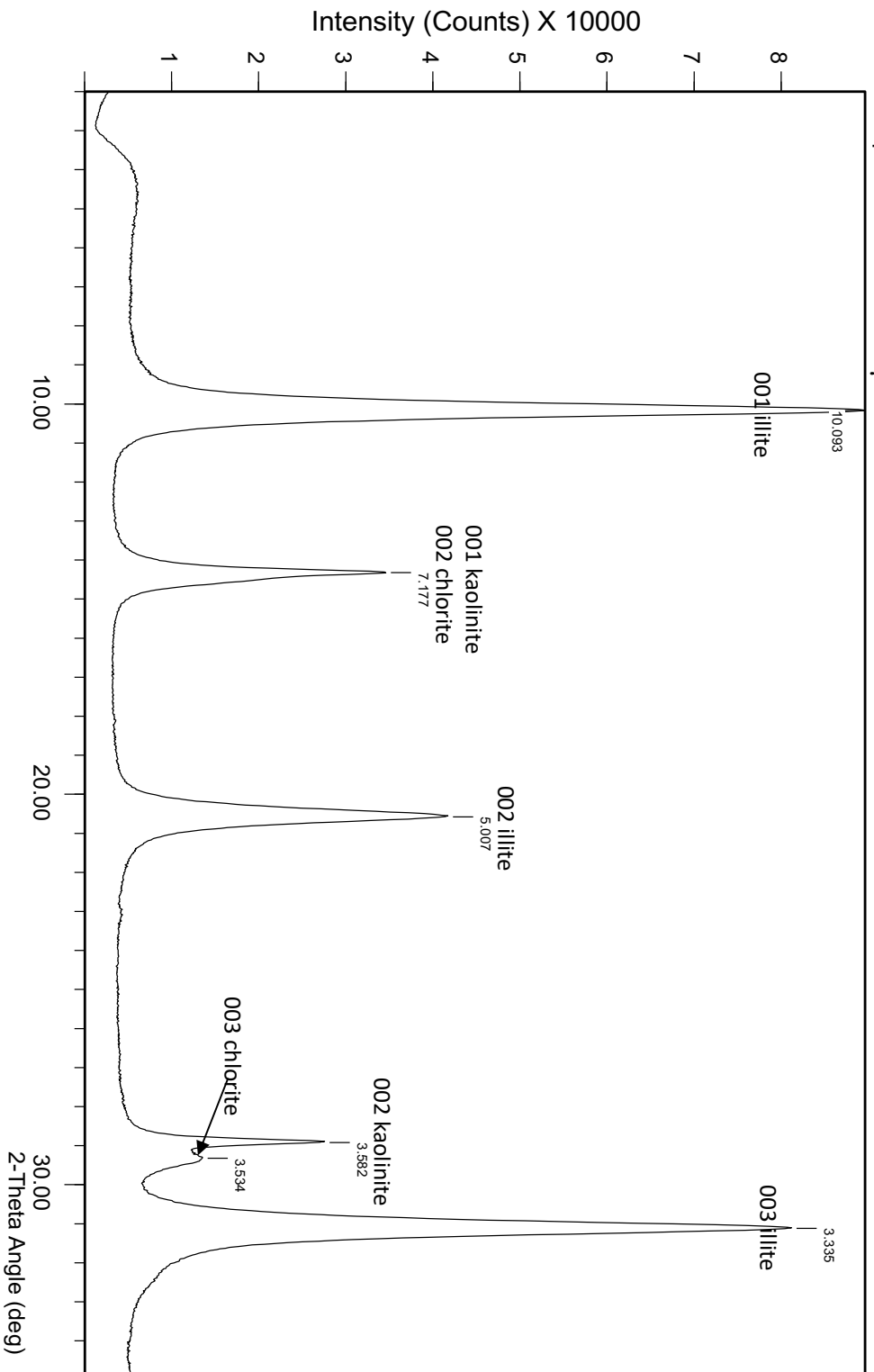
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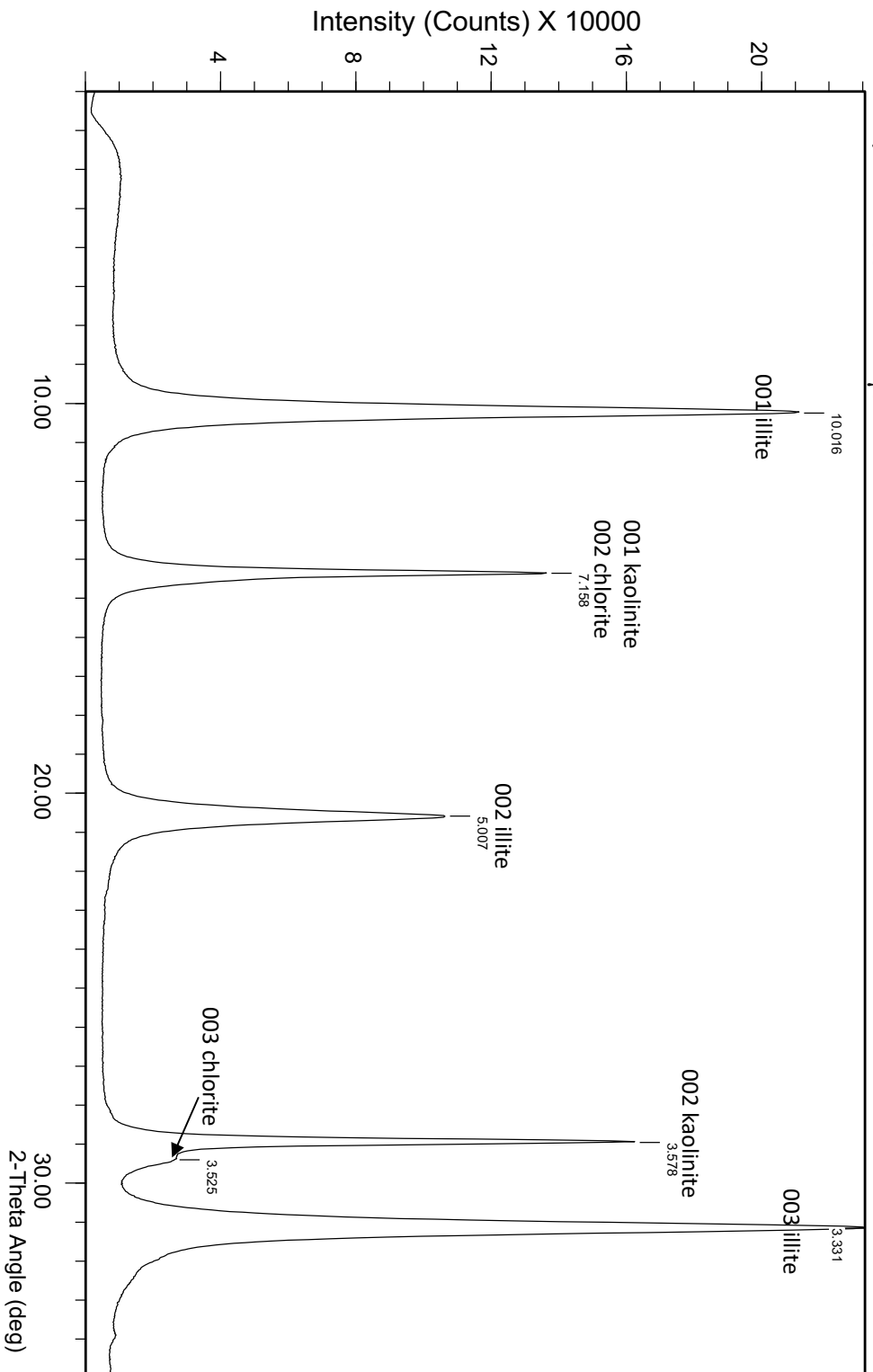
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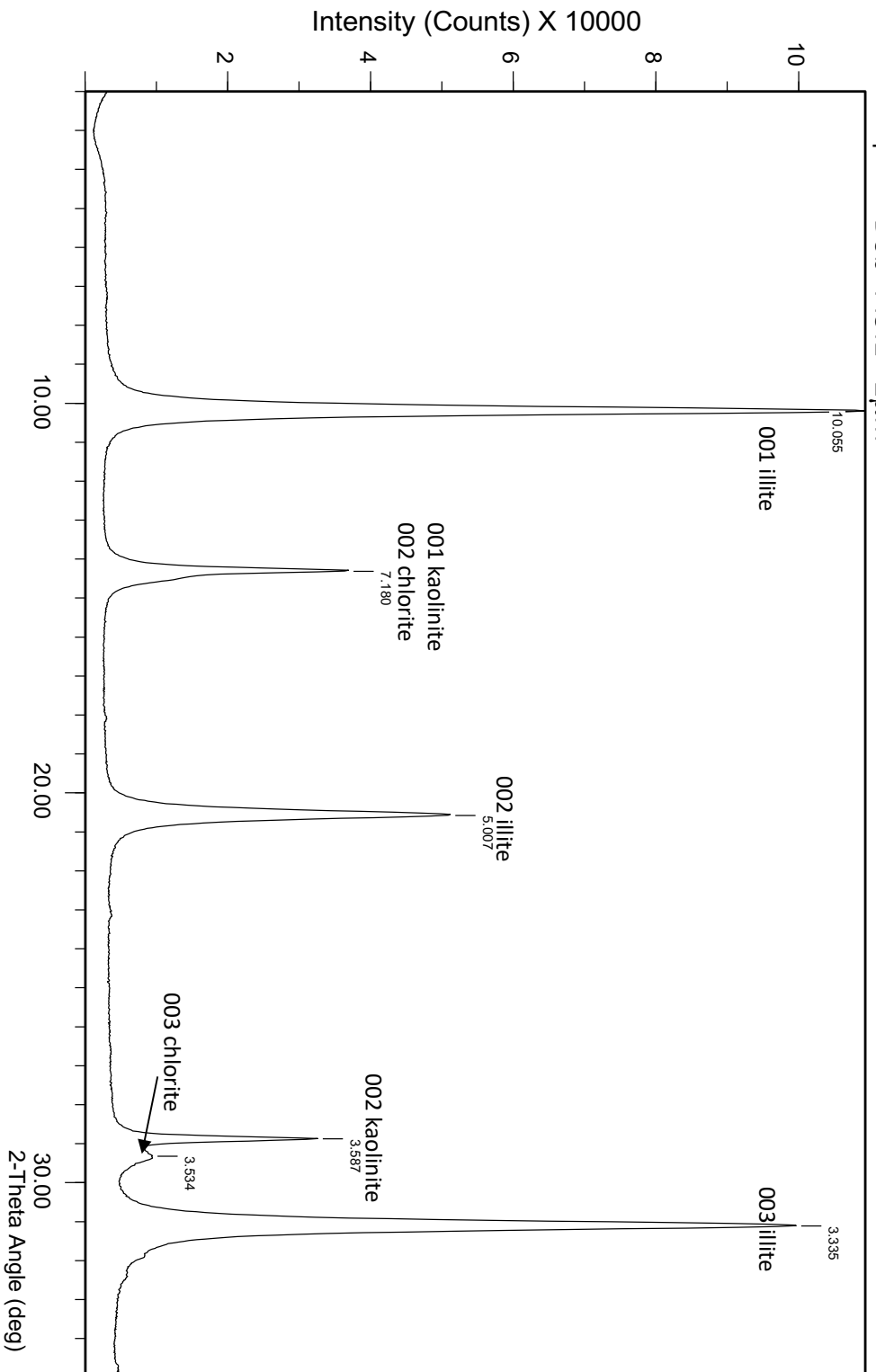
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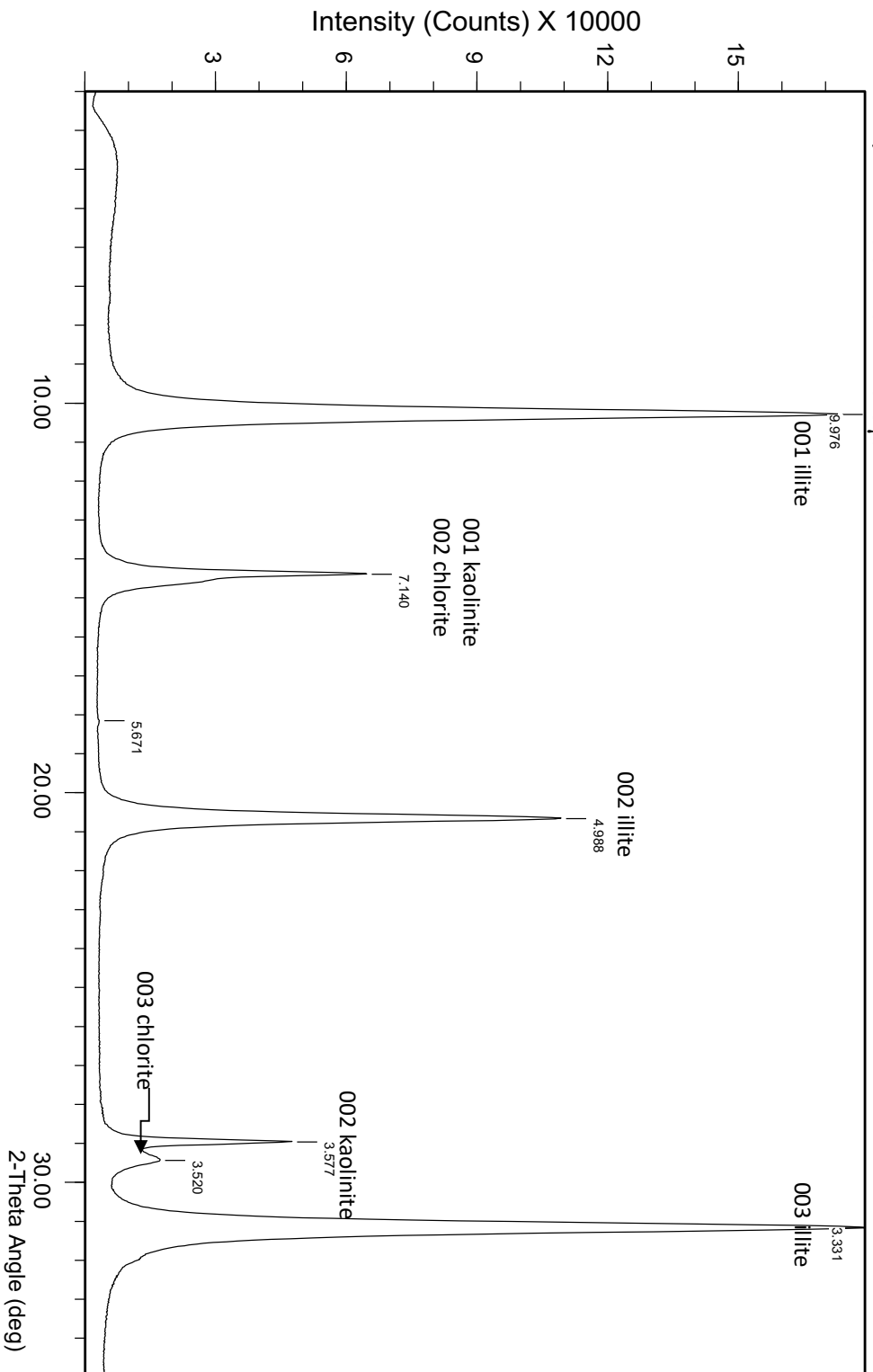
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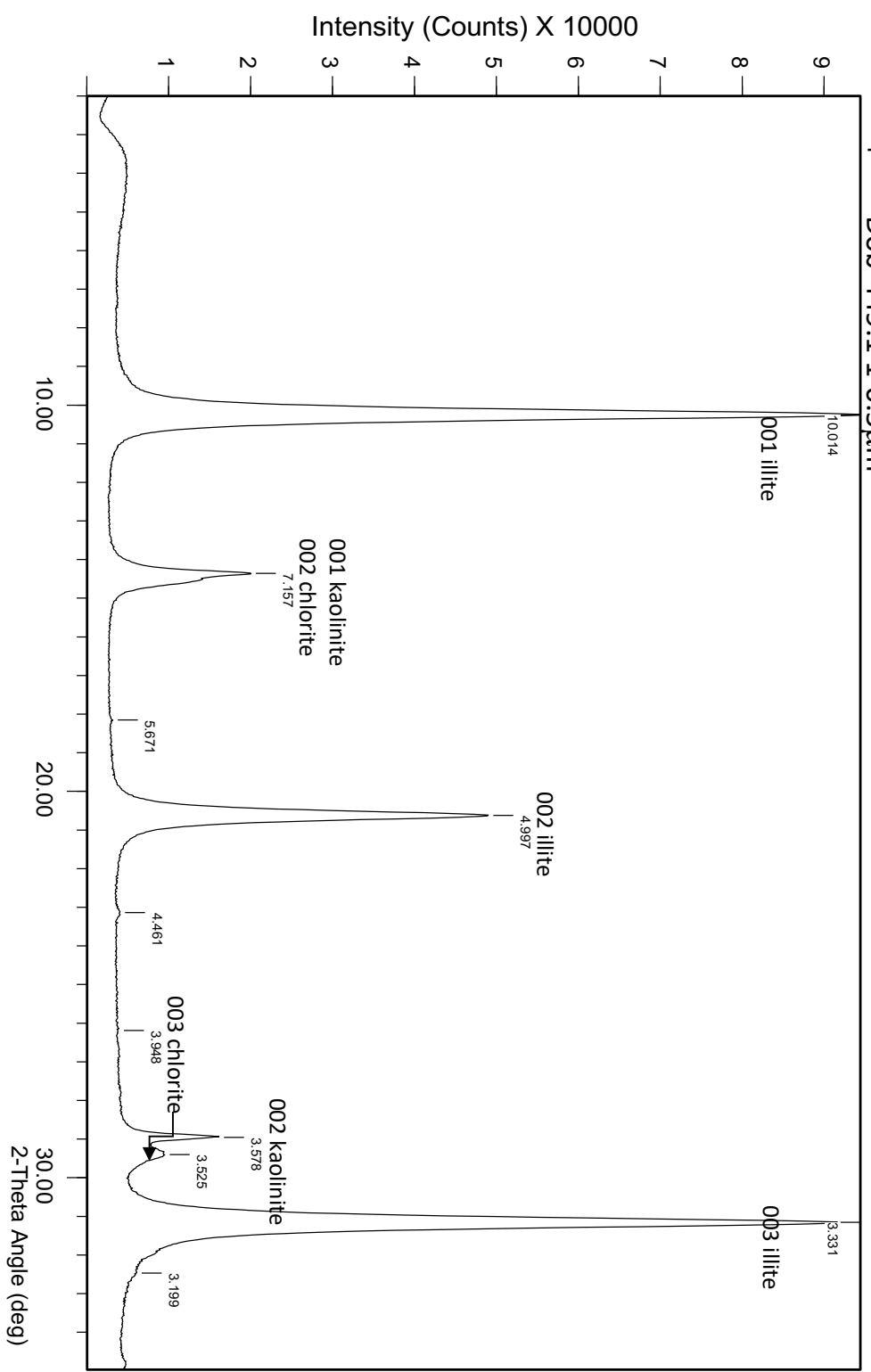
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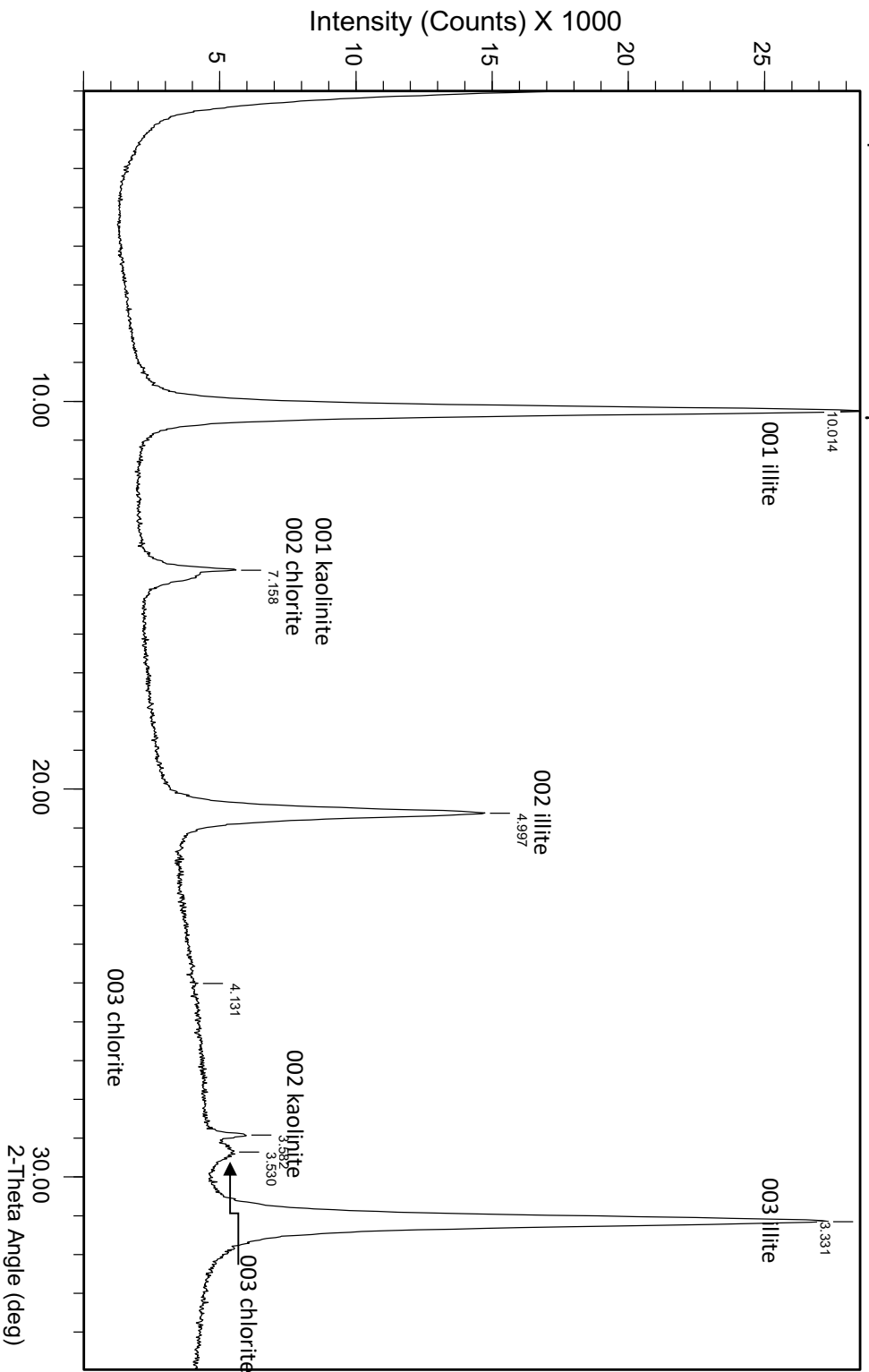
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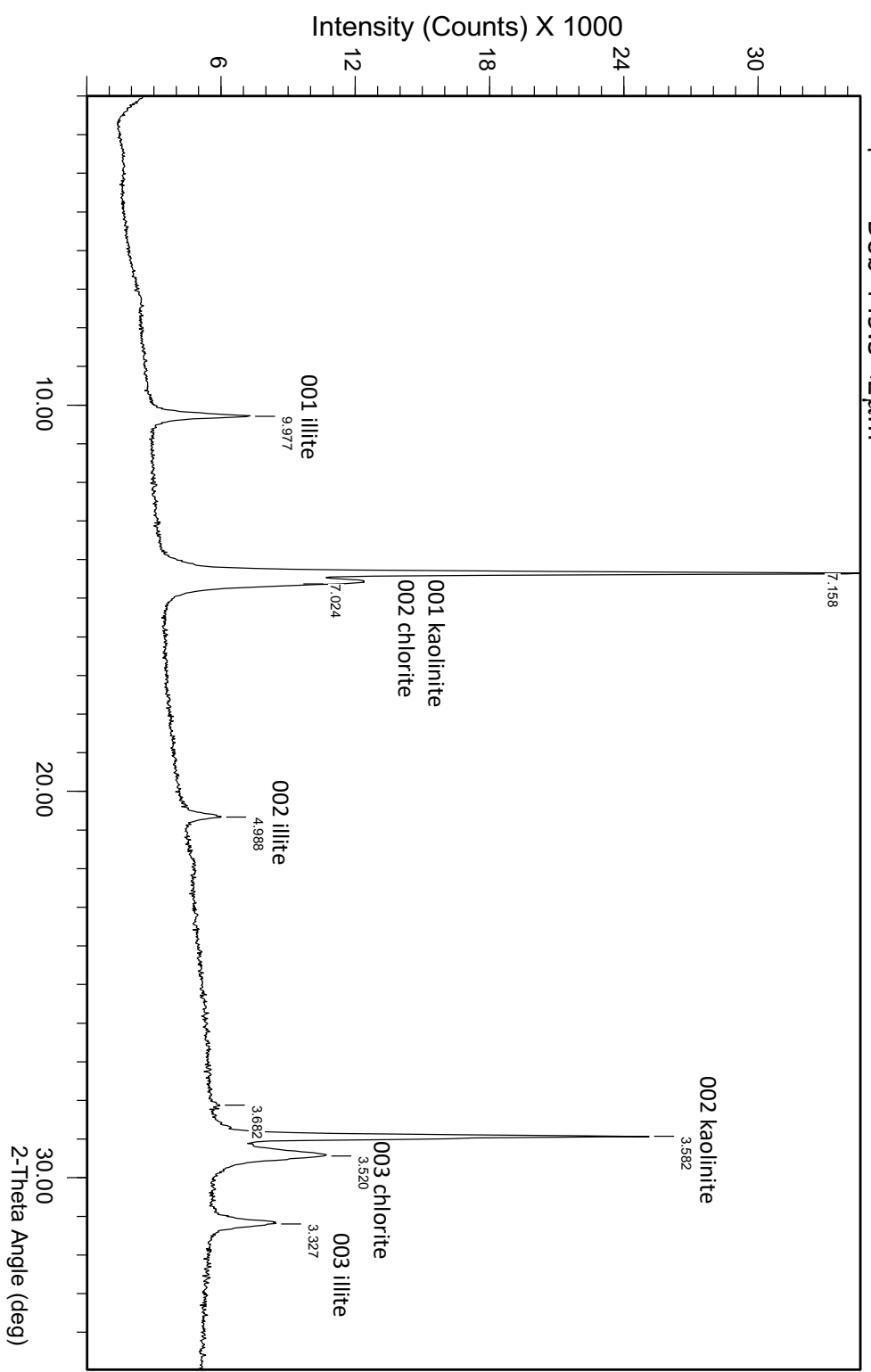
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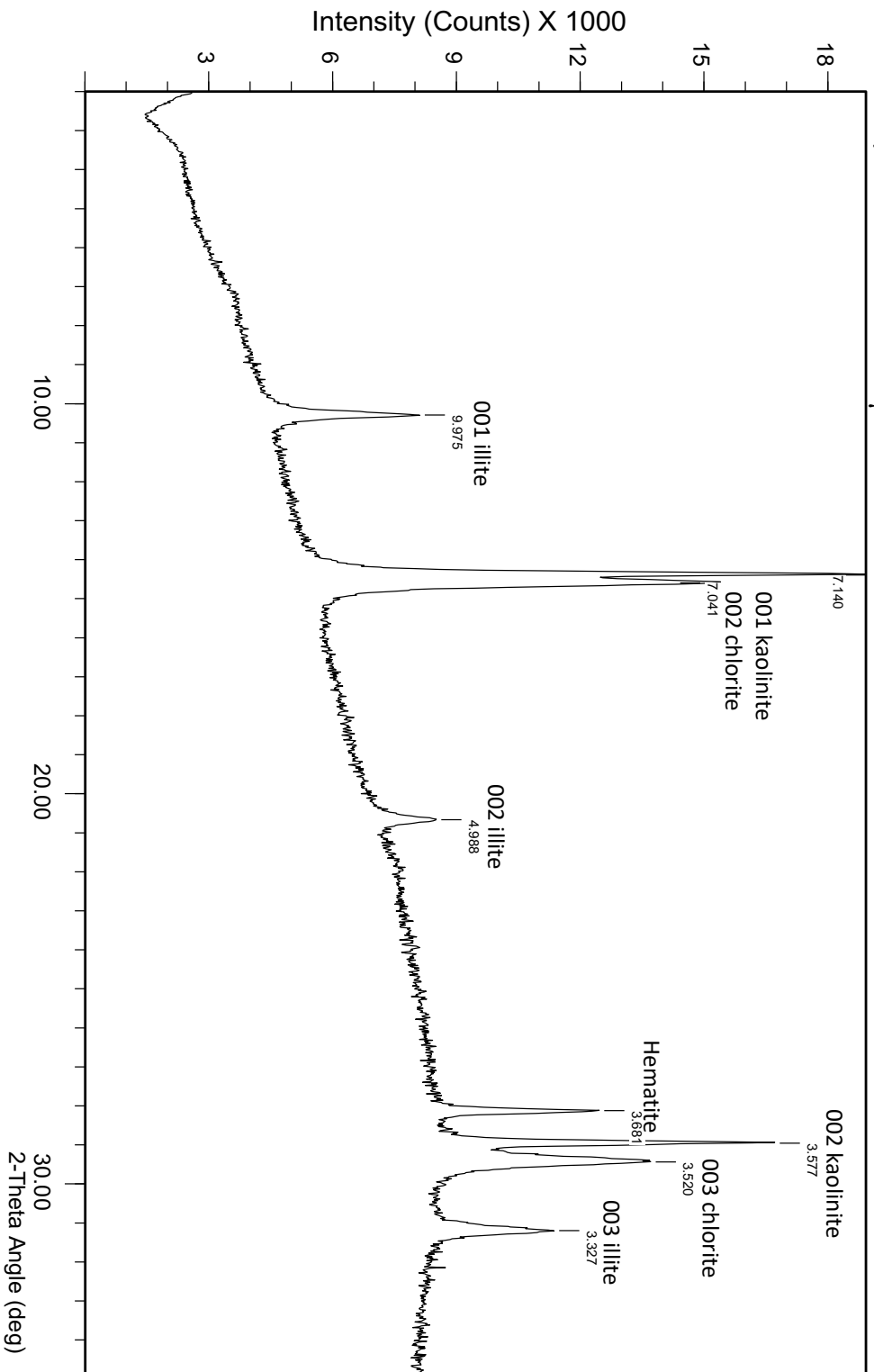
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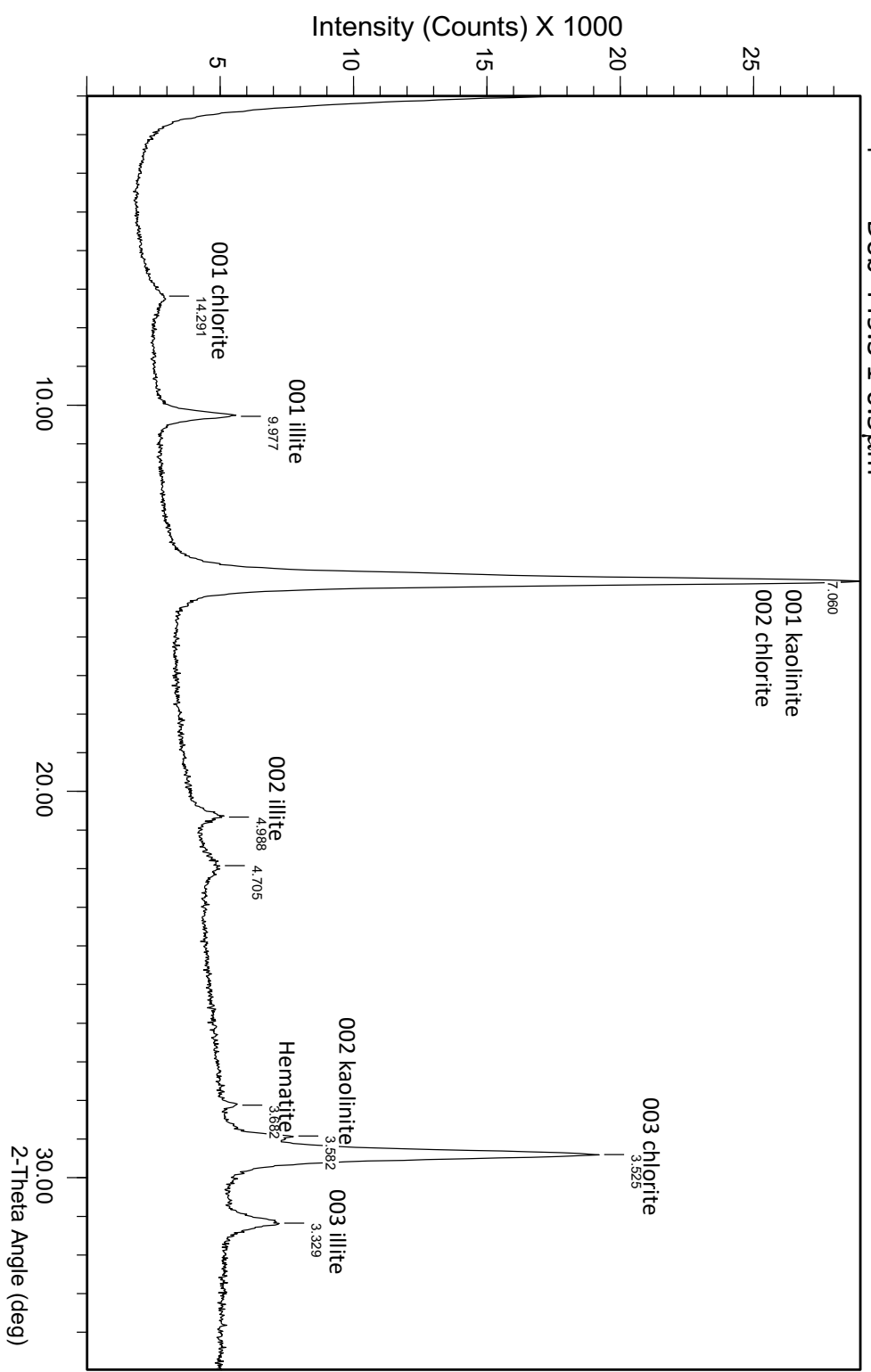
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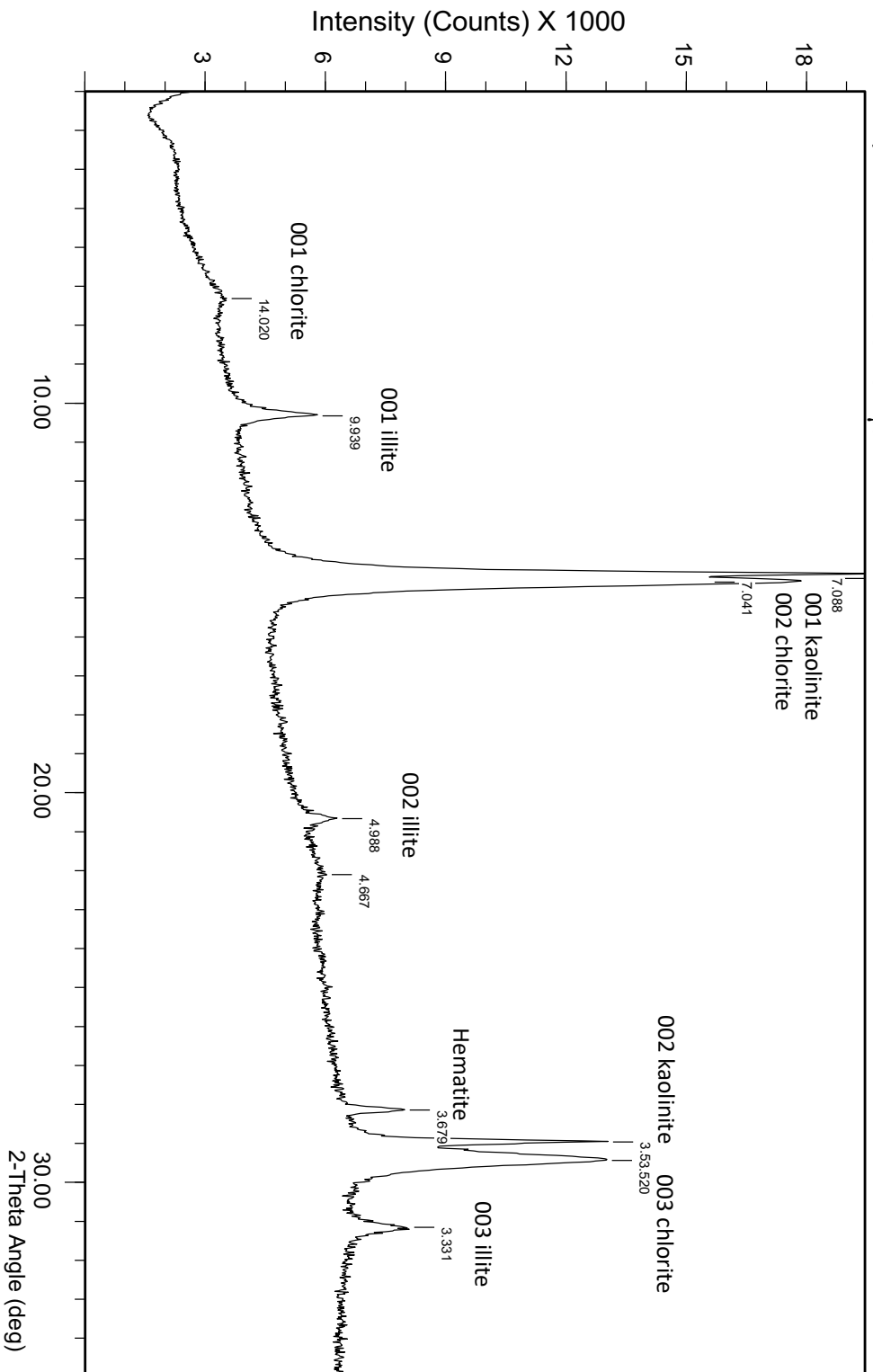
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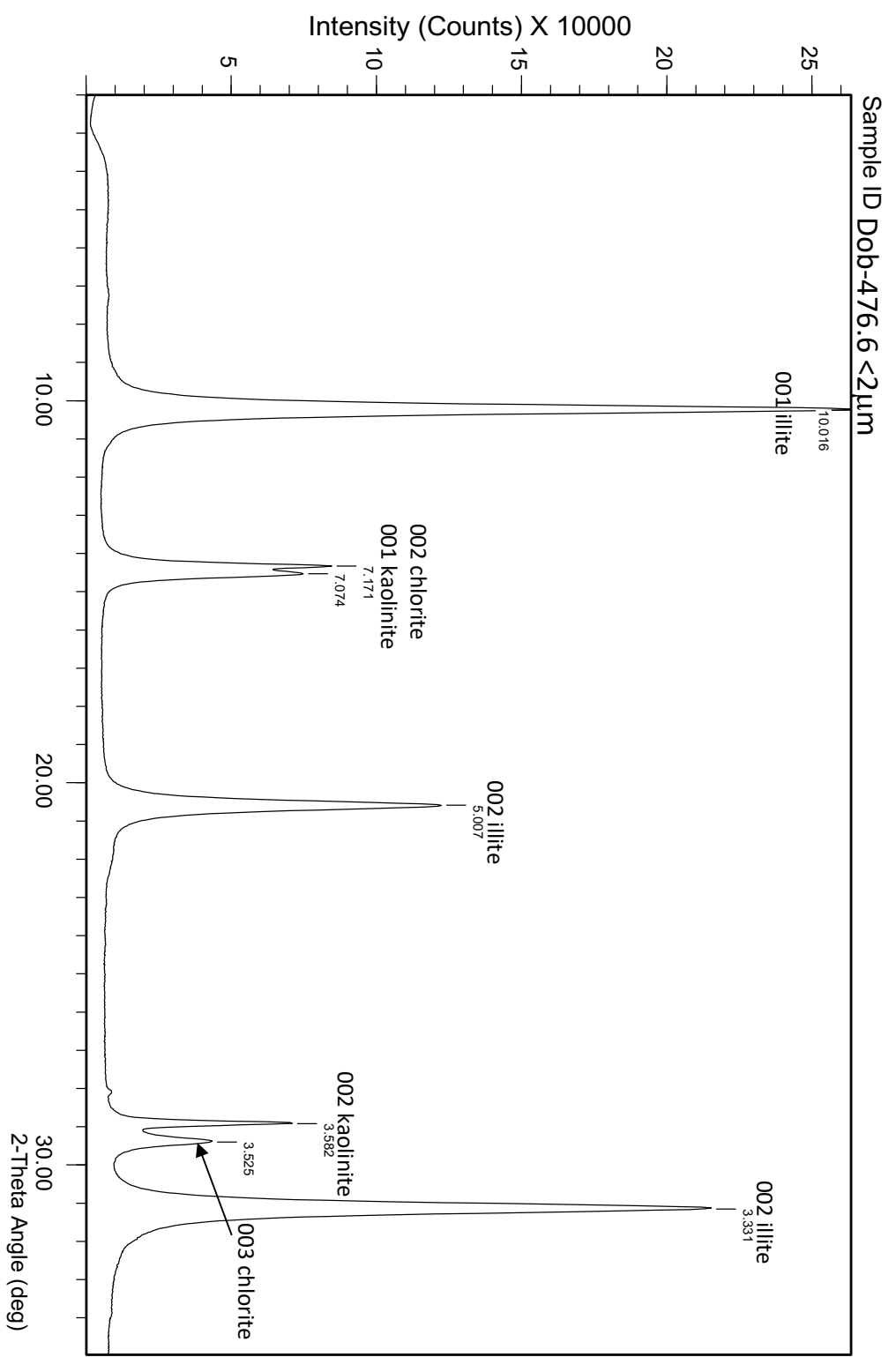


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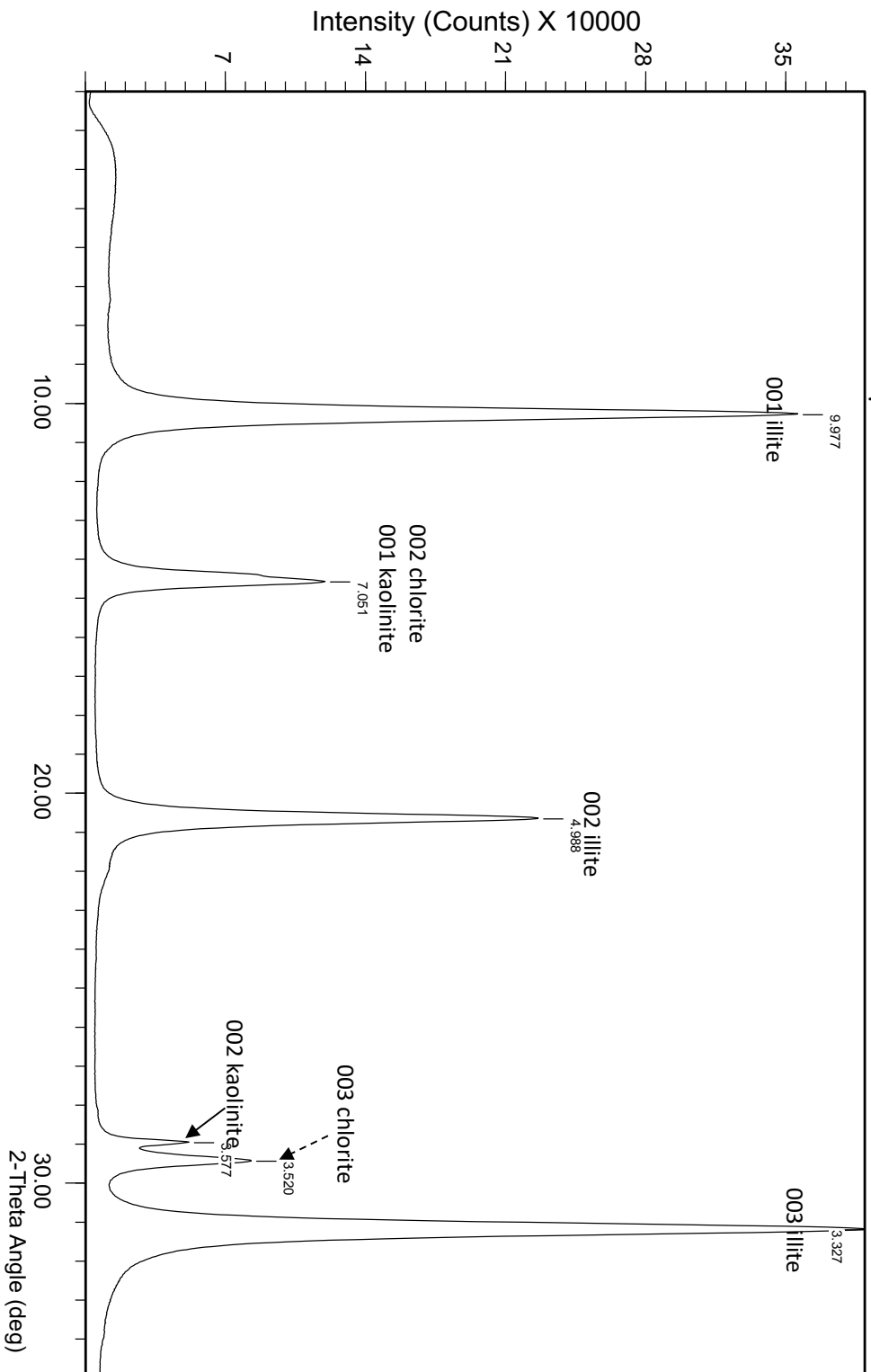


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Sample ID Dob-476.6 <1µm



Sample ID Dob-476.6 2-1µm

