

Refractive Influx Rider of L Alaninium Oxalate With Taxol and KMnO₄

K Senthilkannan^{*1}, S Gunasekaran², R Ranadevan³, S Sailaja³

**Formerly Professor and Head at Zambia and at Oman*

¹Presently Dean Research Edayathangudy GS Pillay Arts and Science College, Nagapattinam 611002 Tn India

²Presently Dean Research St Peters Institute Of Higher Education and Research Chennai Tn India

³Edayathangudy GS Pillay Arts and Science College, Nagapattinam Tn India

***Corresponding Author:** K Senthilkannan, Formerly Professor and Head at Zambia and at Oman presently Dean Research Edayathangudy GS Pillay Arts and Science College, Nagapattinam 611002 Tn

Abstract: Equimolar mixture of L Alanine with oxalic acid in methanol solution was stirred well for 60 minutes and the precipitate was filtered to get L Alaninium Oxalate and mixed with Taxol and KMnO₄ and orthorhombic crystals of L Alaninium Oxalate were obtained. Space group P212121.a is 5.6304 Å and b is 7.2353Å and c is 19.597Å the refractive influx is 2.327μAm/C.

Keywords: L Alaninium Oxalate, Taxol and KMnO₄, L Alaninium Oxalate with Taxol and KMnO₄ and influx...

1. EXPERIMENTAL

The crystal is grown by solution growth method and equimolar mixture of L Alanine with Oxalic acid in methanol solution and mixed with Taxol and KMnO₄ was stirred well for 60 minutes and the precipitate was filtered to get L Alaninium Oxalate crystals and Orthorhombic crystals were obtained.

2. SINGLE CRYSTAL XRD DATA

The single crystal XRD data of 4 APP and L Alaninium Oxalate with Taxol and KMnO₄ are given below.

For L Alaninium Oxalate and is of Orthorhombic form and when mixed with Taxol and KMnO₄, its lattice parameters varies and given in above Table.1.

Table1. Single crystal XRD data of 4 APP and L Alaninium Oxalate with Taxol and KMnO₄

Crystals	L Alaninium Oxalate	L Alaninium Oxalate with Taxol and KMnO ₄
space group	P212121	-
a	5.6304 Å	5.6815Å
b	7.2353Å	7.2855Å
c	19.597Å	19.625Å
System	Orthorhombic	Orthorhombic

3. KERR'S EFFECT

The Kerr effect, also called the quadratic electro-optic (QEO) effect, is a change in the refractive index of a substance in response to an applied electric field.

All materials show a Kerr effect, but certain liquids display it more strongly than others. Here for L Alaninium Oxalate with Taxol and KMnO₄ the refractive influx is 2.327μ Am/C.

4. CONCLUSION

The L Alaninium Oxalate and L Alaninium Oxalate with TAXOL and KMnO₄ are grown by solution growth method and the lattice parameters are measured using single crystal XRD and the refractive influx is measured by Kerr's effect and found to be 2.327μ Am/C for L Alaninium Oxalate with Taxol and KMnO₄. The conjugate base of oxalic acid is the hydrogen oxalate anion, and its conjugate base (oxalate) is a competitive inhibitor of the lactate dehydrogenase (LDH) enzyme. As cancer cells

preferentially use anaerobic metabolism of LDH has been shown to inhibit tumor formation and growth and thus is an interesting potential course of cancer treatment.

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Citation: K. Senthilkannan et al., "Refractive Influx Rider of L Alaninium Oxalate With Taxol and KMnO₄", *International Journal of Advanced Research in Physical Science (IJARPS)*, vol. 5, no. 2, pp. 1-2, 2018.

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