

prueba Spectrophotometric Report

This spectrophotometer report provides a comprehensive analysis of the sample. It includes the sample's absorbance spectrum, a table of absorbance values at specific wavelengths, and a detailed interpretation of the results. The report is designed to provide clear, actionable insights for further research or industrial applications.

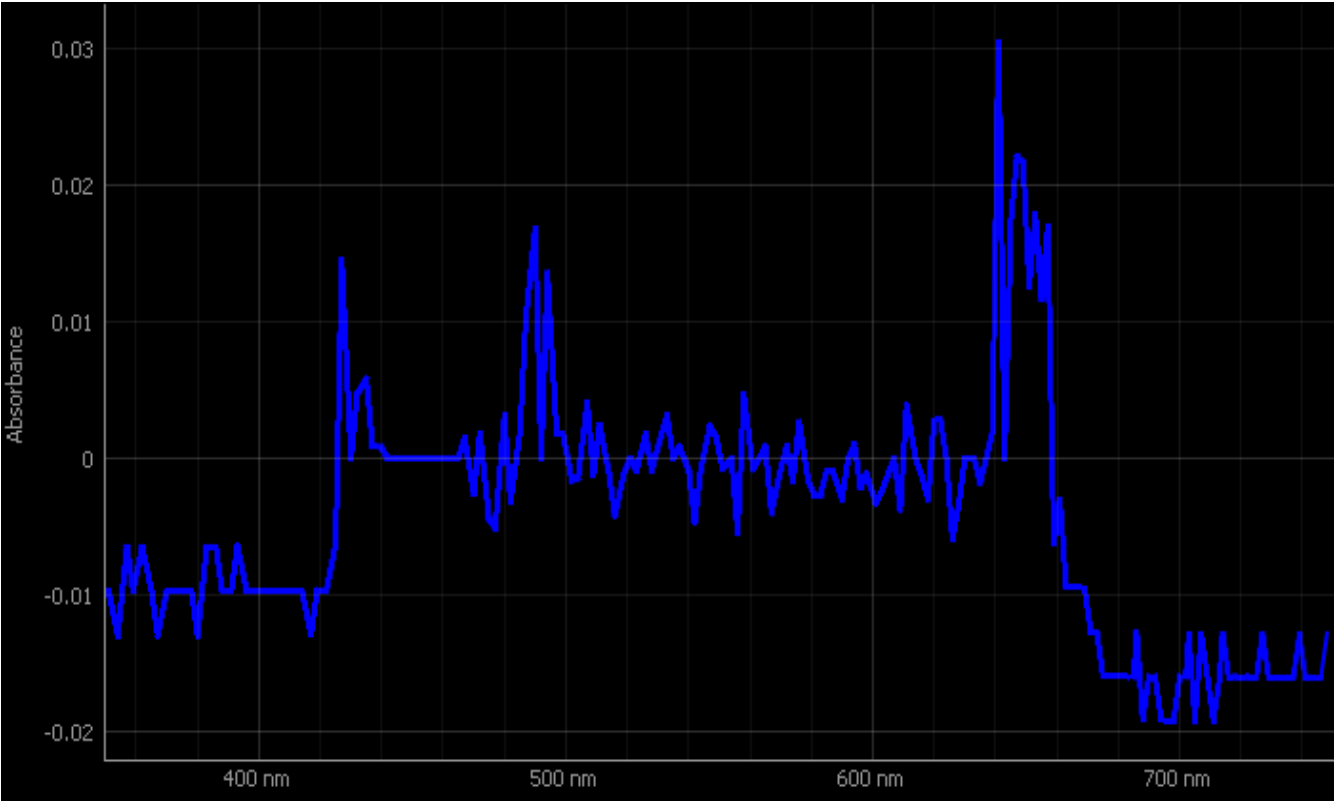
General information:

Sample Name: prueba	Baseline Correction: Yes
User:	Date: 11-05-2024 17:16:27
Manufacturer: UTP	Laboratory: Indicasat AIP
Model: UTP-CG-001	Location: Panama City, Panama
Serial Number: UTP30032024A	Light Source: High Power LED
Wavelength Range: 340 - 850 nm	Detector: CMOS

Test condition

Temperature: 25°C
Humidity: 50%
WL Range: 350 - 750 nm
Scan Speed: 39.55 nm/sec
Test mode: Single
Scan Mode: Absorbance

Measured Graph:



Parameters:

Key Parameters:

Max dB: 0.030448405168715473
Max nm: 641
Min dB: -0.01923787173983013
Min nm: 696
Violet's (428nm) dB: 0.014477157005772942
Blue's (474nm) dB: -0.004461624250879551
Green's (535nm) dB: 0.0
Yellow's (587nm) dB: -0.0009457225346690642
Orange's (609nm) dB: -0.0037225355943538646
Red's (660nm) dB: -0.006185458849840376

Radiometric Parameters:

Radiant Flux: 1000 rad
Radiant Density: 518 rad/mm2
Color Rendering: 70
Thermal resistance: 1.6 C°/W
Radiant Efficacy: 206 rad/W

Electrical Parameters:

Voltage: 12 V
Current: 3 A
Power: 36 W
Power Factor: 1.0
Frequency: 60 Hz

Statistical Parameters:

Mean: -0.004983922750339949
Standard Deviation: 0.008770010742813071
Variance: 7.69130884290567e-05
RMS: 0.01008724810889535
Weighted Average (nm): 583.1636301488116
Minimum Value: -0.01923787173983013
Maximum Value: 0.030448405168715473
Number of Values: 198

Colorimetric Parameters:

Chromaticity Coordinate (X-axis): 0.30053
Chromaticity Coordinate (Y-axis): 0.3205
CCT: 7015K
Prpc WL: - Ld: 696nm
Purity: 10.5%
Peak WL: - Lp: 641nm
FWHM: 12.0nm
Ratio (Red): 13.9%
Ratio (Green): 86.1%
Ratio (Blue): 0.0%
Render Index (Ra): 0.0
EEI: 0.00015
R1: 88
R2: 0.0
R3: 0.0
R4: 0.0
R5: 0.0
R6: 0.0
R7: 0.0
R8: 0.0
R9: 0.0
R10: 0.0
R11: 0.0
R12: 0.0
R13: 0.0
R14: 0.0
R15: 0.0

Measured Data:

WL (nm)	Abs (dB)	T (I/Io)
305	0.00000	1.00000
306	0.00000	1.00000
307	0.00000	1.00000
308	0.00000	1.00000
309	-0.00323	1.00747
310	-0.00646	1.01499
311	-0.00969	1.02257
312	-0.00969	1.02257
313	-0.00969	1.02257
314	-0.00969	1.02257
315	-0.01133	1.02643
316	-0.01296	1.03029
317	-0.01187	1.02771
318	-0.01078	1.02514
319	-0.00969	1.02257
320	-0.00969	1.02257
321	-0.00969	1.02257
322	-0.00969	1.02257
323	-0.00809	1.01880
324	-0.00648	1.01503
325	-0.00755	1.01754
326	-0.00862	1.02005
327	-0.00969	1.02257
328	-0.00969	1.02257
329	-0.00969	1.02257
330	-0.00969	1.02257
331	-0.00969	1.02257
332	-0.00969	1.02257
333	-0.00969	1.02257
334	-0.00969	1.02257
335	-0.00969	1.02257
336	-0.00862	1.02005
337	-0.00755	1.01754
338	-0.00648	1.01503
339	-0.00755	1.01754

WL (nm)	Abs (dB)	T (I/Io)
340	-0.00862	1.02005
341	-0.00969	1.02257
342	-0.01133	1.02643
343	-0.01296	1.03029
344	-0.01187	1.02771
345	-0.01078	1.02514
346	-0.00969	1.02257
347	-0.00969	1.02257
348	-0.00969	1.02257
349	-0.00969	1.02257
350	-0.00969	1.02257
351	-0.00969	1.02257
352	-0.01078	1.02514
353	-0.01187	1.02771
354	-0.01296	1.03029
355	-0.01080	1.02518
356	-0.00864	1.02009
357	-0.00648	1.01503
358	-0.00809	1.01880
359	-0.00969	1.02257
360	-0.00862	1.02005
361	-0.00755	1.01754
362	-0.00648	1.01503
363	-0.00755	1.01754
364	-0.00862	1.02005
365	-0.00969	1.02257
366	-0.01133	1.02643
367	-0.01296	1.03029
368	-0.01187	1.02771
369	-0.01078	1.02514
370	-0.00969	1.02257
371	-0.00969	1.02257
372	-0.00969	1.02257
373	-0.00969	1.02257
374	-0.00969	1.02257

WL (nm)	Abs (dB)	T (I/Io)
375	-0.00969	1.02257
376	-0.00969	1.02257
377	-0.00969	1.02257
378	-0.00969	1.02257
379	-0.01133	1.02643
380	-0.01296	1.03029
381	-0.01080	1.02518
382	-0.00864	1.02009
383	-0.00648	1.01503
384	-0.00648	1.01503
385	-0.00648	1.01503
386	-0.00648	1.01503
387	-0.00809	1.01880
388	-0.00969	1.02257
389	-0.00969	1.02257
390	-0.00969	1.02257
391	-0.00969	1.02257
392	-0.00807	1.01876
393	-0.00645	1.01495
394	-0.00753	1.01749
395	-0.00861	1.02003
396	-0.00969	1.02257
397	-0.00969	1.02257
398	-0.00969	1.02257
399	-0.00969	1.02257
400	-0.00969	1.02257
401	-0.00969	1.02257
402	-0.00969	1.02257
403	-0.00969	1.02257
404	-0.00969	1.02257
405	-0.00969	1.02257
406	-0.00969	1.02257
407	-0.00969	1.02257
408	-0.00969	1.02257
409	-0.00969	1.02257

Measured Data (cont):

WL (nm)	Abs (dB)	T (I/Io)
410	-0.00969	1.02257
411	-0.00969	1.02257
412	-0.00969	1.02257
413	-0.00969	1.02257
414	-0.00969	1.02257
415	-0.01076	1.02509
416	-0.01183	1.02761
417	-0.01289	1.03013
418	-0.01127	1.02628
419	-0.00964	1.02245
420	-0.00964	1.02245
421	-0.00964	1.02245
422	-0.00964	1.02245
423	-0.00853	1.01984
424	-0.00742	1.01724
425	-0.00631	1.01464
426	0.00408	0.99064
427	0.01448	0.96721
428	0.00965	0.97802
429	0.00483	0.98895
430	0.00000	1.00000
431	0.00235	0.99460
432	0.00470	0.98923
433	0.00507	0.98838
434	0.00545	0.98754
435	0.00582	0.98670
436	0.00337	0.99228
437	0.00092	0.99789
438	0.00087	0.99799
439	0.00083	0.99809
440	0.00079	0.99819
441	0.00039	0.99910
442	0.00000	1.00000
443	0.00000	1.00000
444	0.00000	1.00000

WL (nm)	Abs (dB)	T (I/Io)
445	0.00000	1.00000
446	0.00000	1.00000
447	0.00000	1.00000
448	0.00000	1.00000
449	0.00000	1.00000
450	0.00000	1.00000
451	0.00000	1.00000
452	0.00000	1.00000
453	0.00000	1.00000
454	0.00000	1.00000
455	0.00000	1.00000
456	0.00000	1.00000
457	0.00000	1.00000
458	0.00000	1.00000
459	0.00000	1.00000
460	0.00000	1.00000
461	0.00000	1.00000
462	0.00000	1.00000
463	0.00000	1.00000
464	0.00000	1.00000
465	0.00000	1.00000
466	0.00076	0.99826
467	0.00152	0.99652
468	0.00016	0.99964
469	-0.00120	1.00277
470	-0.00256	1.00591
471	-0.00035	1.00081
472	0.00186	0.99572
473	-0.00025	1.00057
474	-0.00235	1.00543
475	-0.00446	1.01033
476	-0.00478	1.01107
477	-0.00510	1.01182
478	-0.00236	1.00546
479	0.00038	0.99913

WL (nm)	Abs (dB)	T (I/Io)
480	0.00312	0.99285
481	-0.00002	1.00005
482	-0.00316	1.00729
483	-0.00149	1.00344
484	0.00017	0.99960
485	0.00184	0.99578
486	0.00610	0.98605
487	0.01036	0.97642
488	0.01252	0.97158
489	0.01468	0.96677
490	0.01684	0.96198
491	0.00842	0.98080
492	0.00000	1.00000
493	0.00678	0.98451
494	0.01356	0.96926
495	0.00965	0.97804
496	0.00573	0.98689
497	0.00182	0.99582
498	0.00183	0.99580
499	0.00184	0.99578
500	0.00069	0.99842
501	-0.00046	1.00106
502	-0.00161	1.00371
503	-0.00152	1.00350
504	-0.00143	1.00330
505	0.00040	0.99908
506	0.00223	0.99488
507	0.00406	0.99070
508	0.00142	0.99674
509	-0.00123	1.00283
510	0.00061	0.99859
511	0.00245	0.99438
512	0.00129	0.99704
513	0.00012	0.99971
514	-0.00104	1.00239

WL (nm)	Abs (dB)	T (I/Io)
515	-0.00261	1.00603
516	-0.00418	1.00967
517	-0.00313	1.00724
518	-0.00209	1.00482
519	-0.00104	1.00241
520	-0.00052	1.00120
521	0.00000	1.00000
522	-0.00046	1.00106
523	-0.00092	1.00212
524	-0.00003	1.00007
525	0.00086	0.99802
526	0.00175	0.99597
527	0.00044	0.99899
528	-0.00088	1.00203
529	-0.00003	1.00008
530	0.00081	0.99813
531	0.00159	0.99635
532	0.00236	0.99458
533	0.00313	0.99281
534	0.00157	0.99640
535	0.00000	1.00000
536	0.00040	0.99908
537	0.00080	0.99815
538	0.00026	0.99940
539	-0.00028	1.00065
540	-0.00083	1.00191
541	-0.00273	1.00631
542	-0.00463	1.01073
543	-0.00270	1.00624
544	-0.00077	1.00177
545	0.00028	0.99936
546	0.00132	0.99697
547	0.00236	0.99457
548	0.00196	0.99550
549	0.00155	0.99643

WL (nm)	Abs (dB)	T (I/Io)
550	0.00042	0.99904
551	-0.00072	1.00167
552	-0.00048	1.00111
553	-0.00024	1.00056
554	0.00000	1.00000
555	-0.00273	1.00630
556	-0.00546	1.01264
557	-0.00041	1.00095
558	0.00463	0.98939
559	0.00283	0.99351
560	0.00102	0.99764
561	-0.00078	1.00180
562	-0.00039	1.00090
563	0.00000	1.00000
564	0.00042	0.99902
565	0.00085	0.99805
566	-0.00158	1.00363
567	-0.00400	1.00925
568	-0.00294	1.00678
569	-0.00187	1.00432
570	-0.00081	1.00187
571	0.00004	0.99991
572	0.00089	0.99795
573	-0.00038	1.00086
574	-0.00164	1.00379
575	0.00050	0.99885
576	0.00264	0.99395
577	0.00120	0.99724
578	-0.00024	1.00055
579	-0.00168	1.00387
580	-0.00218	1.00504
581	-0.00269	1.00622
582	-0.00269	1.00622
583	-0.00269	1.00622
584	-0.00179	1.00414

WL (nm)	Abs (dB)	T (I/Io)
585	-0.00090	1.00207
586	-0.00092	1.00212
587	-0.00095	1.00218
588	-0.00161	1.00372
589	-0.00228	1.00527
590	-0.00295	1.00682
591	-0.00148	1.00340
592	0.00000	1.00000
593	0.00052	0.99879
594	0.00105	0.99759
595	-0.00054	1.00123
596	-0.00212	1.00489
597	-0.00162	1.00375
598	-0.00113	1.00261
599	-0.00184	1.00425
600	-0.00255	1.00589
601	-0.00326	1.00753
602	-0.00282	1.00652
603	-0.00238	1.00550
604	-0.00177	1.00408
605	-0.00116	1.00267
606	-0.00058	1.00133
607	0.00000	1.00000
608	-0.00186	1.00429
609	-0.00372	1.00861
610	0.00007	0.99984
611	0.00386	0.99114
612	0.00258	0.99409
613	0.00129	0.99704
614	0.00000	1.00000
615	-0.00067	1.00154
616	-0.00134	1.00309
617	-0.00214	1.00495
618	-0.00295	1.00682
619	-0.00008	1.00019

WL (nm)	Abs (dB)	T (I/Io)
620	0.00278	0.99361
621	0.00284	0.99349
622	0.00289	0.99337
623	0.00144	0.99668
624	0.00000	1.00000
625	-0.00297	1.00687
626	-0.00595	1.01378
627	-0.00468	1.01083
628	-0.00341	1.00789
629	-0.00171	1.00394
630	0.00000	1.00000
631	0.00000	1.00000
632	0.00000	1.00000
633	0.00000	1.00000
634	-0.00089	1.00205
635	-0.00178	1.00411
636	-0.00089	1.00205
637	0.00000	1.00000
638	0.00095	0.99781
639	0.00190	0.99562
640	0.01618	0.96344
641	0.03045	0.93229
642	0.01522	0.96555
643	0.00000	1.00000
644	0.00869	0.98020
645	0.01737	0.96079
646	0.01974	0.95556
647	0.02211	0.95037
648	0.02189	0.95084
649	0.02168	0.95131
650	0.01710	0.96139
651	0.01252	0.97158
652	0.01521	0.96558
653	0.01790	0.95962
654	0.01478	0.96654

WL (nm)	Abs (dB)	T (I/Io)
655	0.01166	0.97350
656	0.01430	0.96761
657	0.01693	0.96176
658	0.00537	0.98770
659	-0.00619	1.01434
660	-0.00462	1.01069
661	-0.00305	1.00706
662	-0.00620	1.01438
663	-0.00935	1.02176
664	-0.00935	1.02176
665	-0.00935	1.02176
666	-0.00940	1.02187
667	-0.00945	1.02199
668	-0.00947	1.02204
669	-0.00949	1.02210
670	-0.01109	1.02587
671	-0.01269	1.02966
672	-0.01269	1.02966
673	-0.01269	1.02966
674	-0.01430	1.03347
675	-0.01591	1.03730
676	-0.01591	1.03730
677	-0.01591	1.03730
678	-0.01591	1.03730
679	-0.01591	1.03730
680	-0.01591	1.03730
681	-0.01591	1.03730
682	-0.01595	1.03740
683	-0.01599	1.03750
684	-0.01599	1.03750
685	-0.01599	1.03750
686	-0.01276	1.02981
687	-0.01595	1.03740
688	-0.01914	1.04505
689	-0.01756	1.04127

WL (nm)	Abs (dB)	T (I/Io)
690	-0.01599	1.03750
691	-0.01599	1.03750
692	-0.01599	1.03750
693	-0.01756	1.04127
694	-0.01914	1.04505
695	-0.01919	1.04517
696	-0.01924	1.04529
697	-0.01924	1.04529
698	-0.01924	1.04529
699	-0.01761	1.04139
700	-0.01599	1.03750
701	-0.01599	1.03750
702	-0.01599	1.03750
703	-0.01282	1.02997
704	-0.01603	1.03760
705	-0.01924	1.04529
706	-0.01603	1.03760
707	-0.01282	1.02997
708	-0.01441	1.03373
709	-0.01599	1.03750
710	-0.01761	1.04139
711	-0.01924	1.04529
712	-0.01766	1.04149
713	-0.01607	1.03770
714	-0.01282	1.02997
715	-0.01445	1.03383
716	-0.01607	1.03770
717	-0.01603	1.03760
718	-0.01599	1.03750
719	-0.01603	1.03760
720	-0.01607	1.03770
721	-0.01603	1.03760
722	-0.01599	1.03750
723	-0.01607	1.03770
724	-0.01607	1.03770

WL (nm)	Abs (dB)	T (I/Io)
725	-0.01607	1.03770
726	-0.01445	1.03383
727	-0.01282	1.02997
728	-0.01445	1.03383
729	-0.01607	1.03770
730	-0.01607	1.03770
731	-0.01607	1.03770
732	-0.01607	1.03770
733	-0.01607	1.03770
734	-0.01607	1.03770
735	-0.01607	1.03770
736	-0.01607	1.03770
737	-0.01607	1.03770
738	-0.01448	1.03391
739	-0.01289	1.03013
740	-0.01448	1.03391
741	-0.01607	1.03770
742	-0.01607	1.03770
743	-0.01607	1.03770
744	-0.01607	1.03770
745	-0.01607	1.03770
746	-0.01607	1.03770
747	-0.01445	1.03383
748	-0.01282	1.02997
749	-0.01607	1.03770