Collected Papers on Antibiotics

Section VI

«The UV Spectra of Antibiotics from Actinomycetics»

December 1972

Collected Papers on Antibiotics

Section VI

«The UV Spectra of Antibiotics from Actinomycetics»

December 1972

CONTENTS

Tables

UV Absorption Spectra

Tables

Antibiotics without characteristic absorption

Acetomycin	Dihydrostreptomycin	Moenomycin	Streptovitacin A & B
Actionomycetin	Duramycin	Monamycin	Takacidin
Actinonin	Etamycin	Monazomycin	Thermothiocin
Actinospectacin	Eulicin	Musashimycin	Uredolysin
Actithiazic acid	Eumimycin	Mutomycin	Venturicidin
Alboverticillin	Evericin	Neomycins	Werramycin
Amidomycin	Ferromycin	Niromycin A & B	Zygomycin A_1, A_2 & B
Am(m)inosidin	Framycetin	Nojirimycin	A-6
Amphomycin	Fuscomycin	Novomycin	A-249
Aquamycin (in H_2O)	Geomycin	Paromomycins	A-280
Arsimycin	Glebomycin	Peliomycin	A-9828
Arvomycin	Glumamycin	Perlimycin	BA-17039
Aspartocin	Hydroxymycin	Phaeochromin	E-416
Bandamycin A	Hydroxystreptomycin	Phagomycin	F-1370 B
Bluensomycin	Hygromycin B	Phagostatin	GB/229
Camphomycin	Imoticidin	Phleocidin	K_{27}
O-Carbamyl-D-serine	Isocycloheximide	Phytoactin	O-2 (in 1% HCl)
Carcinomycin	Kanamycin A, B & C	Phytostreptin	PA-155B & X
Carzinocidin	Kasugamycin	Racemomycins	R-468
Carzinostatin A & B	Leucocidin	Raisnomycin	RP-11072
Catenulin	Levoristatin	Senomycin	SQ-15859
Cerevioccidin	Lincomycins	Siomycin	T-82
Cineromycin B	Lustericin	Speciomycin (in NaOH)	U-21699
Cladomycin	Mannosidostreptomycin	Solemycin	X-206
Copiamycin	Melanomycin	Streptomycin	X-464
Desideus	Mesenterin	Streptothricin	69
Destomycin A & B	Miusidin	Streptothricin B	720 B

Antibiotics with one maximum

Antibiotics	Solvents	UV (mμ)
* Actinobolin	0.1 N HCl	263 (a 26.6)
	0.1 N NaOH	288 (a 40.6)
	pH 7 buffer	264 (a 25.3)
Actinogan		280
Actinomycin D	0.1 N HCl/EtOH	477 (log ε 4.21)
Actinomycin H		442 (α 18.9)
Actinomycin X_2		443 (24700±400)
Acumycin	EtOH	241 (log ε 4.19)
* Albomycetin		220
Albomycin complex (-H_2SO_4)		286 ($E^{1\%}_{1cm}$ 880)
* Aldgamycin E	MeOH	216 ($E^{1\%}_{1cm}$ 185)
Allomycin	H_2O	302 ($E^{1\%}_{1cm}$ 397)
	0.1 N NaOH	322 ($E^{1\%}_{1cm}$ 491)
	0.1 N HCl	316 ($E^{1\%}_{1cm}$ 422)
* Almarcetin	H_2O	300 ($E^{1\%}_{1cm}$ 450)
* Althiomycin	0.03 N NaOH	220-223, 285-290 (sh.) ($E^{1\%}_{1cm}$ 810, 210)
* Amaromycin		220
* Amicetin	50% aq. EtOH	306 ($E^{1\%}_{1cm}$ 512)
* Amicetin B	0.1 N NaOH	329
* Amidinomycin (-H_2SO_4)		211-212 ($E^{1\%}_{1cm}$ 59)
Angolamycin		240 (log ε 4.16)
* Angustmycin A & C	H_2O	260 ($E^{1\%}_{1cm}$ 570) 260 ($E^{1\%}_{1cm}$ 510)
Anthelmycin	acidic H_2O	274 ($E^{1\%}_{1cm}$ 198)
Antiprotozoin	MeOH	241 ($E^{1\%}_{1cm}$ 365), 260-270 (sh.)
* Aquamycin	0.1 N NaOH	297
Ascomycin		273 (sh.)
* Auranthins		443-444
* Azalomycin B	MeOH	252.5 ($E^{1\%}_{1cm}$ 790)
Azaserine	pH 7.0 buffer	250.5 ($E^{1\%}_{1cm}$ 1140)
	0.1 N NaOH	252 ($E^{1\%}_{1cm}$ 1230)
* Azomycin	EtOH	314 ($E^{1\%}_{1cm}$ 905) 313 ($E^{1\%}_{1cm}$ 680)
* Bamicetin	0.1 N NaOH	321.5 (a 143)
	0.1 N HCl	314 (a 43.7)
	pH 7.0 H_2O	302, (a 45.5)
Bandamycin B	MeOH	218 ($E^{1\%}_{1cm}$ 353), 240-250 (sh.)
Blasticidin A		A: 216

*Containing UV absorption spectrum

Antibiotics	Solvents	UV (mμ)
* Blasticidin S	0.1 N HCl	275 ($E^{1\%}_{1cm}$ 349), 274 (ε 13400)
	0.1 N NaOH	266–270 ($E^{1\%}_{1cm}$ 266) 266 (ε 8850)
* Bleomycins	H_2O	244 (sh.) 288–295
Borrelidin	EtOH	258 (log ε 4.54)
* Bottromycin	96% EtOH	203, 240 (Weak sh.)
* Bovinocidin	acidic soln.	263 (ε 73)
	alk. soln.	375 (ε 24)
* Bramycin	MeOH	244 (ε 6790)
Bryamycin	6 N H_2SO_4	310 ($E^{1\%}_{1cm}$ 125) and Strong end absorption below 250 mμ.
* Bundlin A & B	MeOH	227 ($E^{1\%}_{1cm}$ 1080) 227 ($E^{1\%}_{1cm}$ 1020)
* Canarius	H_2O	264.5 (a 49.79)
	0.01 N H_2SO_4 or 0.01 N NaOH	272 (a 50.34)
		271.5 (a 45.36)
Capreomycin (I, II)	0.1 N HCl	267 ($E^{1\%}_{1cm}$ 282)
	0.1 N NaOH	286 ($E^{1\%}_{1cm}$ 187)
Carbomycin	2% Na_2HPO_4	241 ($E^{1\%}_{1cm}$ 158)
* Carbomycin B	EtOH	278 ($E^{1\%}_{1cm}$ 276)
* 3-Carboxy-2,4-penta-dienal lactol	H_2O	275 (1070)
	0.01 N HCl	242 (555)
* Carzinophilin	0.1 N HCl	285–290 ($E^{1\%}_{1cm}$ 86
* Cellocidin	0.1 N NaOH	299 ($E^{1\%}_{1cm}$ 290)
Cellostatin		265 ($E^{1\%}_{1cm}$ 115)
* Cephalomycin	H_2O	255–260 (sh.)
* Chalcomycin	EtOH	218 ($E^{1\%}_{1cm}$ 319), 240 (sh.)
* Chloramphenicol	H_2O, 0.1 N HCl or 0.1 N NaOH	278 ($E^{1\%}_{1cm}$ 298)
		279.0–279.5
Cinnamycin		end absorption) 230 and 250–260 (sh.)
* Cirramycin A & B	EtOH	240 ($E^{1\%}_{1cm}$ 268) 240 ($E^{1\%}_{1cm}$ 365)
Congocidine	pH 13 soln.	305
* Curamycin	EtOH	284 ($E^{1\%}_{1cm}$ 9.9)
* Cycloheximide		287 (ε 36.7)
* Cycloserine	H_2O	226 ($E^{1\%}_{1cm}$ 406.7)
* Cytomycin	0.1 N HCl	274 ($E^{1\%}_{1cm}$ 336)
	0.1 N NaOH	266 ($E^{1\%}_{1cm}$ 184)
Cytovirin	0.1 N NaOH	268 ($E^{1\%}_{1cm}$ 200)
	0.01 N HCl	275 ($E^{1\%}_{1cm}$ 300)
* Danubomycin		224, 260 (sh.)

Antibiotics	Solvents	UV (mμ)
Decoyinin (anhydrate)	0.01 N H_2SO_4/EtOH	258 (a 56)
Desertomycin		225
Elaiomycin		237.5 ($E^{1\%}_{1cm}$ 428)
Elaiophylin	MeOH	252 ($E^{1\%}_{1cm}$ 614)
Enomycin	0.1 N HCl	278 ($E^{1\%}_{1cm}$ 2.1)
Erythromycin		278, 280 (ε 27, 50)
Erythromycin B		289 ($E^{1\%}_{1cm}$ 36.4)
Erythromycin C		292 (ε 108)
Etamycin	H_2O	Strong end absorption & 350 ($E^{1\%}_{1cm}$ 71)
Eumycetin	MeOH	302
Evericin		end absorption 240 (sh.) mμ
Everninomicin B & D	MeOH	288 ($E^{1\%}_{1cm}$ 12) 289 (22)
	0.1 N NaOH/MeOH	296 ($E^{1\%}_{1cm}$ 72) 295 (80.8)
Fermicidin		290
Flavensomycin	MeOH	251
Flavucidin		275 (log $E^{1\%}_{1cm}$ 2.0)
Formycin	H_2O	295 ($E^{1\%}_{1cm}$ 380)
Foromacidin D		231 (log ε 4.44)
Fuscomycin		280 (sh.) end absorption.
Gancidin W		206 ($E^{1\%}_{1cm}$ 296)
Geminimycin A-1		243-244
Gougerotin	0.1 N HCl	276 (ε 13300)
Griseoviridin	MeOH	221 ($E^{1\%}_{1cm}$ 870)
Hilamycin A		228, 285-295 (sh.)
Hilamycin B		220, 245 (sh.), 280 (sh.)
Homomycin	H_2O	270-2 ($E^{1\%}_{1cm}$ 291)
Hortesin	pH 6.2-7.9 buffer	267
Hygroscopins	EtOH	235
Hygrostatin	EtOH	240 ($E^{1\%}_{1cm}$ 360), 255-270 (sh.)
Iaquirina III	55% EtOH	263
Inactone		330 (75)
Karnatakin	EtOH	237
Kikumycin A & B	0.1 N NaOH	240, 356.5 ($E^{1\%}_{1cm}$ 323 (sh.), 805), 235—240, 357 ($E^{1\%}_{1cm}$ 325 (sh.), 560
Koluophthisin	pH 7.0	268.5 ($E^{1\%}_{1cm}$ 334)

Antibiotics	Solvents	UV (mμ)
Lankacidin	MeOH	227 (log $E^{1\%}_{1cm}$ 2.95)
Lankamycin	MeOH	289 (log ε 150)
Lemonomycin	0.0001 N HCl	271, 300-350 ($E^{1\%}_{1cm}$ 214, 17) (sh.)
* Lenamycin	H_2O	215-216 ($E^{1\%}_{1cm}$ 817)
* Leucomyin A_1	0.001 N HCl	232-3 ($E^{1\%}_{1cm}$ 266)
* Leucomycin B		233 ($E^{1\%}_{1cm}$ 320)
* Leucopeptin	H_2O	259-260 ($E^{1\%}_{1cm}$ 4)
* Lysotoxin	0.1 N HCl	270-272
Macrocin	EtOH	283 ($E^{1\%}_{1cm}$ 244)
* Marinamycin		220, Ca. 287 (sh.)
Megacidin		217 (log ε 3.94)
* Melanomycin		260-270 (sh. and end absorption)
Melanosporin	MeOH	234
Miamycin	MeOH	230
* Mikamycin A	0.1 N NaOH/4% MeOH	293 ($E^{1\%}_{1cm}$ 462)
	0.1 N HCl/4% MeOH	222 ($E^{1\%}_{1cm}$ 624)
Moldin		320
Mycomycetin		260
Mycorhodin	0.1 N NaOH/ 95% EtOH	595 ($E^{1\%}_{1cm}$ 136)
* Myxoviromycin	0.1 N HCl	205 ($E^{1\%}_{1cm}$ 225.5)
	0.1 N NaOH	
* Naramycin B	MeOH	219 ($E^{1\%}_{1cm}$ 79.5)
* Neocarzinostatin		232 (sh.), 292.5 (log ε 1.49)
* Neutramycin		278 ($E^{1\%}_{1cm}$ 15) 290 (sh.)
* Niddamycin	MeOH	216, 240 (sh.) ($E^{1\%}_{1cm}$ 340, 205)
Nonactin	EtOH	279 ($E^{1\%}_{1cm}$ 275)
* Novobiocin	0.01 N H_2SO_4/EtOH	334
	0.1 N HCl	324 ($E^{1\%}_{1cm}$ 390)
	0.1 N NaOH	230 (sh.), 307,
* Nucleocidin	H_2O or 0.1 N HCl	255-257 ($E^{1\%}_{1cm}$ 392)
	0.1 N NaOH	259 ($E^{1\%}_{1cm}$ 406)
* Oleandomycin		290-295 (ε 50)
* Orientomycin		226
* Oryzacidin A	EtOH	243 ($E^{1\%}_{1cm}$ 122.5)

Antibiotics	Solvents	UV (mμ)
Ossamycin	$CHCl_3$	214
Ostreogrycin G	EtOH	215 (log ε 4.53)
Peliomycin	$CHCl_3$	295 (sh.) & end absorption
* Peptimycin	0.1 N NaOH	290
	0.1 N HCl	270-280
* Peresimycin	MeOH	309 ($E^{1\%}_{1cm}$ 278)
Phalamycin		293-316 (sh.)
Phthiomycin	0.1 N NaOH	282 ($E^{1\%}_{1cm}$ 157)
	0.1 N HCl	268 ($E^{1\%}_{1cm}$ 171)
Phytoactin		end absorption 285 (inflections)
* Pikromycin	EtOH	225 (log ε 3.97)
* Plicacetin	0.1 N NaOH	329
* Plurallin	pH 6.8 buffer	257 (sh.), 280 (sh.) ($E^{1\%}_{1cm}$ 3.35, 30.7)
	0.1 N NaOH	245 (sh.) 275 (sh.) ($E^{1\%}_{1cm}$ 76, 56)
* Pluramycin B	EtOH	250-275 (sh.)
* Polyoxin A, B, C & G	0.05 N NaOH or HCl	262—264
Polyoxin D & E	0.05 N NaOH	271
Polyoxin F	0.05 N HCl	215 (sh.), 276
	0.05 N NaOH	271
Poryzamycin	MeOH	260-270
* Primocarcin	H_2O or 0.05 N HCl	253 ($E^{1\%}_{1cm}$ 190)
* Primycin	EtOH	209 ($E^{1\%}_{1cm}$ 966)
Pristinamycin IIA		220-230, 268 ($E^{1\%}_{1cm}$ 620, 196 (sh.))
Pristinamycin IIB		230, 325 ($E^{1\%}_{1cm}$ 550, 54 (sh.))
* Proactinomycin A		240, 260 (sh.)
Psicofuranine	0.01 N H_2SO_4	259 ($E^{1\%}_{1cm}$ 508)
	0.01 N NaOH	261 ($E^{1\%}_{1cm}$ 527)
Puromycin	0.1 N HCl	267.5 ($E^{1\%}_{1cm}$ 195)
	0.1 N NaOH	275 ($E^{1\%}_{1cm}$ 203)
* Pyridomycin	EtOH	303 ($E^{1\%}_{1cm}$ 209)
Questiomycin B	0.1 N HCl	Ca. 270
* Raromycin		250-270 (sh.)
Relomycin		282 ($E^{1\%}_{1cm}$ 245)
Rhodocidin		500-530
Rhodomycin		500-530

Antibiotics	Solvents	UV (mμ)
* 9-β-D-Ribofuranosyl purine	0.1 N HCl	262 ($E^{1\%}_{1cm}$ 232)
	0.1 N NaOH	263 ($E^{1\%}_{1cm}$ 361)
* Ristocetin A & B	H_2O	280
* Ristomycin		280 ($E^{1\%}_{1cm}$ 47)
Rutamycin	EtOH	225 ($E^{1\%}_{1cm}$ 445)
* Sarkomycin	H_2O	230
* Sekazin		240 (153)
* Seligocidin	EtOH	304 ($E^{1\%}_{1cm}$ 363)
* Senmimycin	MeOH	239
Septacidin	MeOH	265 ($E^{1\%}_{1cm}$ 253)
	0.1 N NaOH	272 ($E^{1\%}_{1cm}$ 275)
Shincomycin A & B	MeOH	240 ($E^{1\%}_{1cm}$ 183)
* Showdomycin		220-221 ($E^{1\%}_{1cm}$ 442)
* Siomycin	MeOH	240-250 (sh.)
* Sparsomycin	H_2O or 0.01 N H_2SO_4	270 (sh.), 302 (a 43, 65)
Sparsomycin A	H_2O or 0.01 N KOH	270 (a 43.61)
Speciomycin	H_2O or 0.1 N HCl	273
		270
* Spiramycins	EtOH	231 ($E^{1\%}_{1cm}$ 340)
* Sporaviridin	H_2O	233, 227 (sh.) 242 (sh.) ($E^{1\%}_{1cm}$ 178, 174, 114)
* Staphylomycin M	MeOH	216, 270 (sh.) ($E^{1\%}_{1cm}$ 582, 200)
* Staphylomycin S	EtOH	305 (log ε 3.85)
Streptavidin		282 ($E^{1\%}_{1cm}$ 47)
* Streptocardin	pH 6.0 buffer	365 ($E^{1\%}_{1cm}$ 187), 242-252 (sh.)
* Streptogramin		225, 270-290 & 350 (inflections)
* Streptorubin A & B	EtOH	510-520 (sh.), 532 ($E^{1\%}_{1cm}$ 3080)
* Subliomycin	MeOH	270 ($E^{1\%}_{1cm}$ 378)
* Succinimycin		430 ($E^{1\%}_{1cm}$ 22.8)
Sulfocidin	EtOH	275—280 (3.3)
* Tertiomycin A	EtOH	233 ($E^{1\%}_{1cm}$ 316)
* Theiomycetin		245 ($E^{1\%}_{1cm}$ 621)
Thermomycin		268-272
Thermothiocin	$HCONMe_2$	275 (sh.)
* Thermoviridin	H_2O	268-272
Thioaurin	0.5 N NaOH	300

Antibiotics	Solvents	UV (mμ)
* Thiomycin	0.5 N NaOH	300 ($E^{1\%}_{1cm}$ 555)
	MeOH or 0.5 N HCl	370 ($E^{1\%}_{1cm}$ 375) 370 ($E^{1\%}_{1cm}$ 690)
* Tubercidin	neutral or alk. soln.	270
Tylosin	MeOH	282 ($E^{1\%}_{1cm}$ 245)
* Valinomycin	hexane	281
* Vancomycin (-H_2SO_4)	alk. soln.	300 ($E^{1\%}_{1cm}$ 41.3)
	acidic soln.	278 ($E^{1\%}_{1cm}$ 38.7)
Vernamycin B	MeOH	230 (sh.) ($E^{1\%}_{1cm}$ 590)
* Violarin B	EtOH or H_2O	494-496
Violarins	$HCONMe_2$	499-500
Viomycin	0.1 N NaOH	280-282.5 (219)
	0.1 N HCl	268 ($E^{1\%}_{1cm}$ 339)
* Viridogrisein	EtOH or $CHCl_3$	304 ($E^{1\%}_{1cm}$ 92) 305 ($E^{1\%}_{1cm}$ 95)
	H_2O	350, 303 (sh.) ($E^{1\%}_{1cm}$ 71, 34)
* Virocidin	pH 7.0	243 ($E^{1\%}_{1cm}$ 340) (Shifting to 241 (340) and 282 (220)after
* Xanthicin	MeOH	270 (ε 35235)
Xanthomycin B & C	pH 11.0	280
* Xanthothricin	0.1 N NaOH	325
* A-59		240-250 (sh.), 275-285 ($E^{1\%}_{1cm}$ 340, 185)
* A-216	pH 2-6 soln.	280
	pH 12 soln.	290
A-1787 I		265
A-1787 II		275
Abbott 29119	MeOH	280 (ε 102)
* C-1292		260-280
D-13	50% EtOH	306 ($E^{1\%}_{1cm}$ 512)
DCS	0.1 N NaOH	286
* E-73		285 (ε 20 Weak)
E-300		230-235
F-256		275
F-1370 A (-HCl)	MeOH	306 ($E^{1\%}_{1cm}$ 78)
	MeOH/H_2O (9 : 1)	350 ($E^{1\%}_{1cm}$ 70)
* HON		271 (ε 24)
K-178	MeOH	215 ($E^{1\%}_{1cm}$ 3180)
* M-188	$CHCl_3$	279 ($E^{1\%}_{1cm}$ 280)

Antibiotics	Solvents	UV (mμ)
* K-288 (-HCl)	H_2O	280 ($E^{1\%}_{1cm}$ 41)
M-741		278 ($E^{1\%}_{1cm}$ 17)
* N-44A-21		250-260 (sh.)
O-2	MeOH	240 (sh.), 420-450
O-5		270.5
PA-108		279 ($E^{1\%}_{1cm}$ 289)
PA-114A		220-230 & 275 (656, 200 inflection)
PA-132	MeOH	218.5 ($E^{1\%}_{1cm}$ 358)
PA-133B (PA-1033B)	$CHCl_3$	223 ($E^{1\%}_{1cm}$ 184)
PA-148		238, 280 (sh.) ($E^{1\%}_{1cm}$ 153, 20)
R-285	0.1 N NaOH	330-334 ($E^{1\%}_{1cm}$ 581)
R-451B		288 ($E^{1\%}_{1cm}$ 12)
R-491 A & B	MeOH	239-240 ($E^{1\%}_{1cm}$ 183) 240 ($E^{1\%}_{1cm}$ 181)
S-39		260
* U-20904	H_2O	211
U-22956	EtOH	290 (a 152)
WC-3628	MeOH	240 ($E^{1\%}_{1cm}$ 157)
γ_2		215-240 (sh.), 360, 550
10 CM	H_2O	252, 260-280 (sh.), 312 (inflexion)
* 11 A	MeOH	314 ($E^{1\%}_{1cm}$ 928)
135/1	MeOH or EtOH	258.5
202 C	Et_2O	245-248, 275-285 (inflexion)
* 323/58	0.1 N HCl	259-260 ($E^{1\%}_{1cm}$ 130)
362		270
* 534	0.1 N HCl	262 ($E^{1\%}_{1cm}$ 156)
	H_2O	266-267 ($E^{1\%}_{1cm}$ 174)
	0.1 N NaOH	286-287 ($E^{1\%}_{1cm}$ 132)
* 539	H_2O	260-270
* 1415		282
* 1418-A_1	MeOH	217
5901		225-235 (sh. Weak)
6270		320
* 14725 II		270 (200)

Antibiotics with two maxima

	Antibiotics	Solvents	UV (mμ)
*	Abikoviromycin	0.1 N NaOH	244-246, 280-291
		0.1 N HCl	230-240, 334-340
*	Aburamycin	0.01 N NaOH	227, 278
*	2-Acetyl-2-decarboxamide oxytetyacycline	0.01 N HCl/MeOH	240 (sh.), 277, 316 (sh.), 357 (ε 10580, 15000, 10620,13870)
	Actinoflocin		231, 276
*	Actinoleukin		243, 312 ($E^{1\%}_{1cm}$ 597, 115)
	Actinomycin B	95% EtOH	242, 443
	Actinomycin D	95% EtOH	242, 444
	Actinomycin J		244, 445
	Actinomycin L		240, 440 ($E^{1\%}_{1cm}$ 270, 180)
	Actinomycin M	EtOH	232-240, 448
*	Actinorhodin	NaOH	588, 641
*	Alazopeptin	pH 7.0 buffer	242, 274 ($E^{1\%}_{1cm}$ 321, 549)
	Albimycin	MeOH	225.5, 232.5, 240±0.5 (sh.) (ε 13300, 12648, 7433)
	Albomycin complex		290, 420
*	Albon(o)ursin		234, 318 ($E^{1\%}_{1cm}$ 357, 1140)
	Alomycin	MeOH	270, 350
*	Althiomycin	0.03 N NaOH	220-223, 285-290 (sh.) ($E^{1\%}_{1cm}$ 810, 210)
		0.03 N NaOH/ MeCellosolve	230-233, 305
	Alveomycin	H_2O	277, 420 ($E^{1\%}_{1cm}$ 51, 11)
*	Amicetin	0.1 N NaOH/EtOH	272, 325 (283, 412)
*	Amicetin B	pH 7.0	249, 321
		0.1 N HCl	257, 311.5
*	Amicetin C	H_2O	257, 304 ($E^{1\%}_{1cm}$ 288, 250)
		0.1 N HCl	255, 313 ($E^{1\%}_{1cm}$ 183, 332)
		0.1 N NaOH	274, 318 ($E^{1\%}_{1cm}$ 174, 217)
	Anthelmycin	neutral or basic H_2O	234, 267 ($E^{1\%}_{1cm}$ 127, 135.5)
*	Anthelvencin A & B (-HCl)		235, 300 ($E^{1\%}_{1cm}$ 437, 451)
*	Anthracidin A	MeOH	233, 358 ($E^{1\%}_{1cm}$ 784, 465)
*	Anthracidin B	MeOH	233, 350 ($E^{1\%}_{1cm}$ 747, 390)
	Anthramycin	acetonitrile	235, 331 (ε 18200, 31800)
*	Antimycin A_1		225, 321 (ε 33100, 5730)
*	Antimycin A_3 & A_4		225, 321 (ε 34100, 5580)
*	Antipiriculin		224-228, 320-323 ($E^{1\%}_{1cm}$ 669, 123)
	Antiprotozoin	MeOH	241 ($E^{1\%}_{1cm}$ 365), 260-270 (sh.)

Antibiotics	Solvents	UV (mμ)
* Azalomycin F	MeOH	240, 268 ($E^{1\%}_{1cm}$ 385, 235)
Bandamycin B	MeOH	218 ($E^{1\%}_{1cm}$ 353), 240-250 (sh.)
* Blastmycin	MeOH	225, 321 ($E^{1\%}_{1cm}$ 625, 116)
	alk.	224, 345 ($E^{1\%}_{1cm}$ 742, 176)
* Bleomycins	H_2O	244 (sh.) 289-295
* Bottromycin	96% EtOH	203, 240 (Weak sh.)
* Caerulomycin	EtOH	235, 285 (sh.), 295
Carbomycin	EtOH	238, 327 ($E^{1\%}_{1cm}$ 185, 0.9)
* Carzinophilin A	0.1 N NaOH	230, 283 ($E^{1\%}_{1cm}$ 940, 460)
	H_2O	217, 290 ($E^{1\%}_{1cm}$ 476, 190)
* Celesticetin	0.01N alc.H_2SO_4	240, 310 ($E^{1\%}_{1cm}$ 183.7, 80.6)
	0.01N alc. KOH	248, 341 ($E^{1\%}_{1cm}$ 130.3, 103.7)
	H_2O	239, 307 ($E^{1\%}_{1cm}$ 182, 74)
* Cervicarcin	0.1 N NaOH	242.5, 276 (sh.), 358 (16800, 4700, 2800)
* Chalcomycin	EtOH	218 ($E^{1\%}_{1cm}$ 319), 240 (sh.)
* Chromomycins	EtOH	230, 282
* Cineromycin A	MeOH	232, 303 ($E^{1\%}_{1cm}$ 646, 553)
	0.1 N NaOH	241, 298 ($E^{1\%}_{1cm}$ 642, 582)
Cinnamycin		end absorption 230 and 250-260 (sh.)
Collinomycin		535, 575
Congocidine	pH 1 soln.	236, 296
* Coumermycin A_1	EtOH	280, 336 ($E^{1\%}_{1cm}$ 535, 380)
	acidic EtOH	280, 345 ($E^{1\%}_{1cm}$ 398, 399)
	alk. EtOH	280, 305 ($E^{1\%}_{1cm}$ 560, 335)
Coumermycin A_2	EtOH	267, 340
* Cranomycin	EtOH	240, 310-321 ($E^{1\%}_{1cm}$ 475, 20)
* Danubomycin		224, 260 (sh.)
Dermostatin	MeOH	282, 384-386 ($E^{1\%}_{1cm}$ 715)
* 6-Diazo-5-oxo-L-norleucine	pH 7.0 buffer	224, 274 ($E^{1\%}_{1cm}$ 376, 683)
* 1,6-Dihydroxyphenazine	0.1 N NaOH	291, 520-530
* Distacyne		255, 340 ($E^{1\%}_{1cm}$ 640, 470)
* Distamycin A		237, 303 (ε 3×10^4, 3.7×10^4)
Distamycin C		236, 300-500
Doricin		257, 306
* Duazomycins		245, 275 ($E^{1\%}_{1cm}$ 315, 530)
* Echinomycin		242, 322 (log $E^{1\%}_{1cm}$ 2.76, 2.02)

Antibiotics	Solvents	UV (mμ)
* Enteromycin carboxamide	MeOH or acidic MeOH	230, 270 (sh.), 300 ($E^{1\%}_{1cm}$ 650, 740, 820)
	0.1 N NaOH/MeOH	272, 341 (680, 860)
* Flavofungin		263, 368
Folimycin	EtOH	245, 284 (480, 230)
* Formycin	0.1 N NaOH	235, 305 ($E^{1\%}_{1cm}$ 500, 260)
	0.1 N HCl	234, 295 ($E^{1\%}_{1cm}$ 280, 340)
* Formycin B	H_2O	219, 280 ($E^{1\%}_{1cm}$ 348, 294)
	0.1 N HCl	221, 276 ($E^{1\%}_{1cm}$ 543, 300)
	0.1 N NaOH	230, 292 ($E^{1\%}_{1cm}$ 643, 338)
* Fradicin		242, 265 (sh.), 292
Frenolicin	MeOH	234, 363 ($E^{1\%}_{1cm}$ 520, 155)
* Grisamine	H_2O	255, 320
Griseins		265, 420 ($E^{1\%}_{1cm}$ 108, 28.9)
* Griseococcin		239, 291 ($E^{1\%}_{1cm}$ 172, 162)
Griseococcin D	MeOH	243, 290 ($E^{1\%}_{1cm}$ 231, 218)
* Griseolutein A	MeO	265, 362 ($E^{1\%}_{1cm}$ 1980, 330)
* Griseolutein B		281–283, 342–344 ($E^{1\%}_{1cm}$ 296, 170)
* Hilamycin A		228, 285–295 (sh.)
* Hilamycin B		220, 245 (sh.), 280 (sh.)
* Humidin		245, 285
* Hygromycin	dil. acid	214, 272 ($E^{1\%}_{1cm}$ 416, 306)
Hygrostatin	EtOH	240, ($E^{1\%}_{1cm}$ 360), 255–270 (sh.)
Iaquirina I & II		240, 440
Iaquirina III	alk. 55% EtOH	240, 295
* Iyomycin		236 (sh.), 270–280 (Weak sh.)
* Julimycin B-II	MeOH or HCl	234, 460
	$NaHCO_3$/MeOH	234, 560
* Kikumycin A	H_2O or 0.1 N HCl	235, 323 ($E^{1\%}_{1cm}$ 310, 647)
	0.1 N NaOH	240 (sh.), 356.5 ($E^{1\%}_{1cm}$ 323, 805)
* Kikumycin B	H_2O or 0.1 N HCl	239, 328 ($E^{1\%}_{1cm}$ 406, 470)
	0.1 N NaOH	235–240 (sh.), 357 ($E^{1\%}_{1cm}$ 325, 560)
* Kokubumycin	$HCONMe_2$	255, 295 ($E^{1\%}_{1cm}$ 70, 70)
* Labilomycin	0.1 N NaOH	240, 321 ($E^{1\%}_{1cm}$ 298, 436)
* Latumucidin	0.1 N NaOH	246, 287–291 ($E^{1\%}_{1cm}$ 500, 454)
	0.1 N H_2SO_4	231–236, 334–338 ($E^{1\%}_{1cm}$ 618, 724)

Ultraviolet Absorption

Antibiotics	Solvents	UV (mμ)
Laurusin	0.1 N HCl	219, 279 (ε 13000, 6860)
	0.1 N NaOH	230, 289 (ε 9000, 6000)
Lemonomycin	0.0001 N HCl	271, 300-350 ($E^{1\%}_{1cm}$ 214, 17) (sh.)
* Leucomycin complex	EtOH	230-232, 285
* Leucomycin A_2	0.001 N HCl	231 ($E^{1\%}_{1cm}$ 158), 291 (Weak)
* Levomycin	MeOH	242.5 (694), 322.5 (130)
* Luteomycin (-HCl)	0.1 N NaOH	270-280, 7500
	0.1 N HCl	270-290, 420-430
Manumycin	EtOH	281, 325 (log ε 4.63, 4.59)
* Marinamycin		220, ca 287 (sh.)
* Matamycin	0.1 N NaOH	237, 305-307 ($E^{1\%}_{1cm}$ 550, 270)
	MeOH	220, 285 ($E^{1\%}_{1cm}$ 190)
* Methymycin		223-225, 322 (ε 10500, 47)
* Mikamycin A	MeOH	226, 270 (sh.) ($E^{1\%}_{1cm}$ 624, 200)
* Mikamycin B	0.1 N HCl/MeOH	209, 305 ($E^{1\%}_{1cm}$ 602, 99)
Mikonomycin		219, 240 (sh.), 290 (log $E^{1\%}_{1cm}$ 2.45, 2.23, 1.17)
* Mitomycin A	0.1 N NaOH	360, 550-560
* Mitomycin B	0.1 N NaOH	360, 580
Mitomycin R		215, 315
* Moldicidin		212, 260
* Monilin	H_2O	230, 280
Musarin	EtOH	240, 267 ($E^{1\%}_{1cm}$ 375, 200)
Mycetin A		430-510, 540-572
* Mycolutein	MeOH	254. 345 ($E^{1\%}_{1cm}$ 680, 400)
* Mycomycin	Et_2O	256 (sh.), 267 281 (ε 61000, 67000)
* Mycospocidin	MeOH	215, 257-258 ($E^{1\%}_{1cm}$ 215, 89)
* Naramycin B	MeOH	232 (sh.), 292.5 (log ε 1.49)
Narbomycin	EtOH	225, 286 (log ε 4.06, 2.23)
* Neocarzinostatin		278 ($E^{1\%}_{1cm}$ 15), 290 (sh.)
* Neohumidin	EtOH	247, 285 ($E^{1\%}_{1cm}$ 570, 212)
Neomethymycin	EtOH	227.5 (log ε 4.10), 322
* Netropsin (-HCl)		238, 295 ($E^{1\%}_{1cm}$ 430, 423)
* Neutramycin		216, 240 ($E^{1\%}_{1cm}$ 340, 205) (sh.)
Nitrosporin A & C		250, 320 (log ε 4.15, 2.60)
Nocardianin	MeOH	330, 440 (log ε 3.66, 4.52)
* Novobiocin	pH 6.0 buffer	238, 250 (sh.), 290 (sh.), 304