

# Table of Lovibond Colour Grading Discs for use with the Comparator System 2000

ORDER CODE	PRICE CODE	SCALE/DESCRIPTION	DISC CODE	RANGE COVERED	ACCESSORIES REQUIRED	APPLICATIONS
<b>APHA COLOUR, SEE PLATINUM-COBALT</b>						
<b>ASTM COLOUR (ASTM D 1500)</b>						Diesel fuels
24 12 70	SP	DIESEL FUEL	4/81	1.0, 2.0, 3.0, 3.5, 4.0, 4.5, 5.0	33 mm cells W680/OG/33	F76 type fuels
29 28 30	SP	DIESEL FUEL	4/82	0.5, 1.0, 2.0, 3.0, 4.0, 4.5	33 mm cells W680/OG/33	
<b>BARRETT SCALE</b>						Resins, shellacs, tar products
24 36 00	C	BARRETT 1 - 6	4/36	1, 1 <sup>1</sup> / <sub>2</sub> , 2, 2 <sup>1</sup> / <sub>2</sub> , 3, 3 <sup>1</sup> / <sub>2</sub> , 4, 5, 6	5 mm cells W680/OG/5	
<b>DICHROMATE COLOUR INDEX</b>						Oils, fats
24 62 00	C	DICHROMATE DISC 1	4/62	0.5, 0.75, 1, 1.5, 2, 2.5, 3, 3.5, 4	25 mm cells W680/OG/25	
24 63 00	C	DICHROMATE DISC 2	4/63	4.5, 5, 5.5, 6, 7, 8, 9, 10	25 mm cells W680/OG/25	
<b>DYED AVIATION GASOLINE</b>						Dyed aviation gasoline
24 78 00	C	DYED AVIATION GASOLINE	4/78	Blue, green, brown and purple (min and max of each)	200 mm cylinders, DB421	
24 79 00	C	DYED AVIATION GASOLINE	4/79	Red (min and max)	200 mm cylinders, DB421	
<b>EUROPEAN BREWERY CONVENTION (EBC) COLOUR</b>						Beers, malt worts, caramels
24 14 10	C	EBC 2 - 6	4/14A	2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0	1 - 40 mm cells W680/OG/	} Result calculated to that for a 25 mm cell
24 14 20	C	EBC 6 - 10	4/14B	6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0	1 - 40 mm cells W680/OG/	
24 14 30	C	EBC 10 - 18	4/14C	10, 11, 12, 13, 14, 15, 16, 17, 18	1 - 40 mm cells W680/OG/	
24 14 40	C	EBC 19 - 27	4/14D	19, 20, 21, 22, 23, 24, 25, 26, 27	1 - 40 mm cells W680/OG/	
24 14 90	C	EBC 4 - 8	4/14AB	4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0	1 - 40 mm cells W680/OG/	
29 54 00	C	EBC 8 - 14	4/14BC	8.0, 8.5, 9.0, 9.5, 10, 11, 12, 13, 14	1 - 40 mm cells W680/OG/	
29 54 10	C	EBC 16 - 24	4/14CD	16, 17, 18, 19, 20, 21, 22, 23, 24	1 - 40 mm cells W680/OG/	
-	D	User specified range, available on request	-	Please specify range required		
<b>EUROPEAN PHARMAPOEIA (EP) COLOUR</b>						Pharmaceutical solutions
24 64 10	C	EP RED SERIES	4/64A	R1, R2, R3, R4, R5, R6, R7	40 mm cells W680/OG/40	
24 64 20	C	EP YELLOW SERIES	4/64B	Y1, Y2, Y3, Y4, Y5, Y6, Y7	40 mm cells W680/OG/40	
24 64 30	C	EP BROWN SERIES	4/64C	B1, B2, B3, B4, B5, B6, B7, B8, B9	40 mm cells W680/OG/40	
24 64 40	C	EP BROWN/YELLOW SERIES	4/64D	BY1, BY2, BY3, BY4, BY5, BY6, BY7	40 mm cells W680/OG/40	
24 64 50	C	EP GREEN/YELLOW SERIES	4/64E	GY1, GY2, GY3, GY4, GY5, GY6, GY7	40 mm cells W680/OG/40	
<b>GARDNER COLOUR</b>						Oils, resins, varnishes, chemicals
24 30 30	C	GARDNER 1 - 9	4/30AS	1, 2, 3, 4, 5, 6, 7, 8, 9	10 mm cells W680/OG/10	
24 30 40	C	GARDNER 10 - 18	4/30BS	10, 11, 12, 13, 14, 15, 16, 17, 18	10 mm cells W680/OG/10	
29 97 40	C	GARDNER 6 - 14	-	6, 7, 8, 9, 10, 11, 12, 13, 14	10 mm cells W680/OG/10	
29 41 50	D	GARDNER (1953) 1 - 9	4/15A	1, 2, 3, 4, 5, 6, 7, 8, 9	10 mm cells W680/OG/10	
29 41 60	D	GARDNER (1953) 10 - 18	4/15B	10, 11, 12, 13, 14, 15, 16, 17, 18	10 mm cells W680/OG/10	
29 61 10	D	GARDNER (1933) 1 - 9	-	1, 2, 3, 4, 5, 6, 7, 8, 9	10 mm cells W680/OG/10	
29 61 20	D	GARDNER (1933) 10 - 18	-	10, 11, 12, 13, 14, 15, 16, 17, 18	10 mm cells W680/OG/10	
<b>HAEMOGLOBIN CONTENT OF BLOOD BY DIRECT COLOUR GRADING - SEE</b>						
<b>HAZEN COLOUR, SEE PLATINUM-COBALT</b>						
<b>HONEY COLOUR (PFUND EQUIVALENTS)</b>						Honey
24 55 00	C	PFUND EQUIVALENTS 8 - 114 TO INTERNATIONAL SCALE	4/55	8, 17, 34, 48, 83, 114 mm	10 mm cells W680/OG/10	
29 77 80	C	CANADIAN HONEY 8 - 114	-	8, 13, 30, 50, 85, 114 mm	10 mm cells W680/OG/10	
29 82 80	C	USDA HONEY	-	Water White, Extra White, White, Extra Light Amber, Light Amber, Amber	33 mm cells W680/OG/33	
29 95 70	C	PFUND EQUIVALENTS 5 - 45	-	5, 10, 15, 20, 25, 30, 35, 40, 45 mm	10 mm cells W680/OG/10	
29 95 80	C	PFUND EQUIVALENTS 45 - 85	-	45, 50, 55, 60, 65, 70, 75, 80, 85 mm	10 mm cells W680/OG/10	
29 95 90	C	PFUND EQUIVALENTS 85 - 110	-	85, 90, 95, 100, 110 mm	10 mm cells W680/OG/10	
-	D	User specified range, available on request	-	Please specify range required		
<b>IODINE COLOUR</b>						Oils, resins, fatty acids
24 57 00	C	IODINE 1 - 9	4/57	1, 2, 3, 4, 5, 6, 7, 8, 9 mg/100 ml	25 mm cells W680/OG/25	
24 58 00	C	IODINE 10 - 50	4/58	10, 15, 20, 25, 30, 35, 40, 45, 50 mg/100 ml	10 mm cells W680/OG/10	
24 59 00	C	IODINE 60 - 300	4/59	60, 70, 80, 100, 125, 150, 200, 250, 300 mg/100 ml	10 mm cells W680/OG/10	
24 60 00	C	IODINE 400 - 1000	4/60	400, 500, 600, 700, 800, 900, 1000 mg/100 ml	2.5 mm cells W680/OG/2.5	

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<b>INTERNATIONAL FRUIT JUICE UNION (IFU) COLOUR</b>						Fruit juices, concentrates
24 48 00	C	IFU 1 - 9	4/48	1, 2, 3, 4, 5, 6, 7, 8, 9	13 mm cells W680/OG/13	
24 49 00	C	IFU 9 - 17	4/49	9, 10, 11, 12, 13, 14, 15, 16, 17	13 mm cells W680/OG/13	
24 47 00	C	IFU 17 - 25	4/50	17, 18, 19, 20, 21, 22, 23, 24, 25	13 mm cells W680/OG/13	
<b>MAPLE SYRUP</b>						Maple syrup
29 95 20	C	USDA MAPLE SYRUP	-	Light Amber, Medium Amber, Dark Amber	33 mm cells W680/OG/33	
29 01 80	C	VERMONT D of A MAPLE SYRUP	-	Fancy grade, Grade A Medium Amber, Grade A	33 mm cells W680/OG/33	
25 93 70	C			Dark Amber, Grade B		
<b>PAINT RESEARCH STATION (PRS) COLOUR</b>						Varnishes, shellacs
24 11 00	C	BLEACHED SHELLAC	4/11	$\frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}$	10 mm cells W680/OG/10	
24 11 10	C	SHELLAC A	4/11A	$2, 2\frac{1}{2}, 3, 3\frac{1}{2}, 4, 4\frac{1}{2}, 5, 5\frac{1}{2}, 6$	10 mm cells W680/OG/10	
24 11 20	C	SHELLAC B	4/11B	$6\frac{1}{4}, 6\frac{1}{2}, 6\frac{3}{4}, 7, 7\frac{1}{4}, 7\frac{1}{2}, 8, 8\frac{1}{2}, 9$	10 mm cells W680/OG/10	
<b>PLATINUM-COBALT/HAZEN/APHA COLOUR</b>						Waters, clear oils, chemicals
24 28 00	B	HAZEN 50 - 500	4/28	50, 75, 100, 150, 200, 250, 300, 400, 500 mg Pt/l	40 mm cells DB428 or W680/OG/40	
28 41 10	B	HAZEN 10 - 90	NSH	10, 20, 30, 40, 50, 60, 70, 80, 90 mg Pt/l	Nessler cylinders AF 306/P	
28 41 20	B	HAZEN 70 - 250	NSB	70, 85, 100, 125, 150, 175, 200, 225, 250 mg Pt/l	Nessler cylinders AF 306/P	
28 41 30	B	HAZEN 50 - 300	NSX	50, 60, 70, 80, 100, 150, 200, 250, 300 mg Pt/l	Nessler cylinders AF 306/P	
28 41 50	B	HAZEN 0 - 30	CAA	0, 2.5, 5.0, 7.5, 10, 15, 20, 25, 30 mg Pt/l	250 mm cylinders DB420	
28 41 60	B	HAZEN 30 - 70	CAB	30, 35, 40, 45, 50, 55, 60, 65, 70 mg Pt/l	250 mm cylinders DB420	
28 39 70	B	HAZEN 0 - 30	1209/1	0, 2.5, 5.0, 7.5, 10, 15, 20, 25, 30 mg Pt/l	100 ml (288 mm) cylinders	} Conforms to path length requirements of ASTM D 1209
28 39 80	B	HAZEN 30 - 70	1209/2	30, 35, 40, 45, 50, 55, 60, 65, 70 mg Pt/l	100 ml (288 mm) cylinders	
29 75 20	C	HAZEN 40 - 120	-	40, 50, 60, 70, 80, 90, 100, 110, 120 mg Pt/l	Nessler cylinders AF 306/P	
<b>RUBBER LATEX FILM COLOUR</b>						Rubber latex
24 19 10	C	RUBBER LATEX 1 - 5	4/19A	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	Special holder supplied with disc	ASTM D 3157
24 19 20	C	RUBBER LATEX 5 - 16	4/19B	5, 6, 7, 8, 9, 10, 12, 14, 16	Special holder supplied with disc	ISO 9460
<b>SERIES 52 (BROWN) SCALE</b>						Whiskies, beers, sugar solns
24 56 10	C	SERIES 52, 4 - 12	4/56A	4, 5, 6, 7, 8, 9, 10, 11, 12	1 - 40 mm cells W680/OG/	
24 56 20	C	SERIES 52, 13 - 21	4/56B	13, 14, 15, 16, 17, 18, 19, 20, 21	1 - 40 mm cells W680/OG/	
24 56 30	C	SERIES 52, 22 - 30	4/56C	22, 23, 24, 25, 26, 27, 28, 29, 30	1 - 40 mm cells W680/OG/	
	D	User specified range, available on request	-	Please specify range required		
<b>US PHARMACOPOEIA (USP) COLOUR</b>						Pharmaceutical solutions
24 66 00	A	USP A - E	4/66A	A, B, C, D, E	40 mm cells W680/OG/40	
24 66 10	A	USP F - J	4/66B	F, G, H, I, J	40 mm cells W680/OG/40	
24 66 20	A	USP K - O	4/66C	K, L, M, N, O	40 mm cells W680/OG/40	
24 66 30	A	USP P - T	4/66D	P, Q, R, S, T	40 mm cells W680/OG/40	

# Table of Lovibond Colorimetric Chemical Analysis Discs for use with the Comparator System 2000

ORDER CODE	PRICE CODE	TEST	DISC CODE	RANGE COVERED	CHEMICAL METHOD BASED ON	ACCESSORIES REQUIRED	REMARKS
<b>FOOD AND BEVERAGE QUALITY CONTROL</b>							
<b>ALPHA AMYLASE ACTIVITY</b>							
24 29 00	C	MALT, SINGLE FILTER	4/29	Pass/fail	Starch/iodine	13.5 mm cells DB 424	
24 26 00	C	PASTEURISED LIQUID EGG	4/26	1, 2, 3, 4, 5, 6, 7	Starch/iodine	25 mm cells W680/OG/25	Test for alpha amylase activity to check the efficiency of heat pasteurisation of liquid eggs.
<b>MILK QUALITY</b>							
24 09 00	B	RESAZURIN TEST	4/9	0, 1, 2, 3, 4, 5, 6	Resazurin tablets	Milk Viewing Stand, Tubes AF 215TT	Rapid indication of bacterial content of milk.
24 13 00	B	PHOSPHATASE IN MILK	4/13	0, 6, 10, 14, 18, 25, 42 µg/ml p-nitrophenol	Aschaffenburg & Mullen phosphatase test	Milk Viewing Stand, Tube AF 215TT	Rapid test for milk phosphatase to check the efficiency of pasteurisation
24 10 00	B	PHOSPHATASE IN MILK	4/10	0.5, 1.5, 1.8, 2.1, 2.3, 2.5, 3.0 'blue units'	Kay & Graham method	Milk Viewing Stand, Tubes AF 215TT	Rapid test for milk phosphatase to check the efficiency of pasteurisation.
24 17 00	B	LACTIC ACID CONTENT	4/17	0, 0.01, 0.02, 0.03, 0.04, 0.05% lactic acid	Ferric chloride	Milk Viewing Stand, Tubes AF 215TT	Test for estimating shelf-life.
<b>MISCELLANEOUS QUALITY TESTS</b>							
23 80 00	C	ALCOHOL CONTENT	3/80	1, 2, 3, 4, 4.5, 5, 6 g/l	Chromic acid	13.5 mm cells DB 424	Rapid, accurate means of determining the alcohol content of drinks, juices and vinegar.
23 30 00	C	FURFURAL IN WHISKY	3/30	0.25, 0.5, 0.7, 0.8, 0.9, 1.9, 1.1, 1.2, 1.3 g/100 litres absolute alcohol	Aniline acetate	13.5 mm cells DB 424	For determining fufuraldehyde in whisky.
24 45 00	C	SUGARS (REDUCING) IN POTATOES	4/45	0.06, 0.12, 0.20, 0.28, 0.38, 0.49, 0.67, 0.95, 1.35%	Picric acid	Standard lab equipment, specified in test method	
<b>CHEMICALS &amp; PETROCHEMICALS, MISCELLANEOUS QUALITY TESTS</b>							
29 64 30	C	ACID WASH COLOUR	-	1, 2, 3, 4, 5, 6, 7, 8	Sulphuric acid wash	Tube AF 223A	For quality testing of industrial aromatic hydrocarbons (ASTM D 848).
29 28 00	C	IMPURITIES IN ACETONE	-	Pass/fail, single filter	Permanganate reduction	Nessler cylinders AF 306/P	For quality testing of acetone and methanol (ASTM D 1363).
29 99 70	C	METHANOL IN WATER	-	0, 100, 300, 500, 700, 900, 1200, 1500, 2000 ppm/VV	Dichromate reduction	13.5 mm cells DB424	
<b>MINERAL OILS, FUELS AND GASES</b>							
<b>ANTI-ICING ADDITIVE IN AVIATION FUELS</b>							
24 33 00	D	ANTI-ICING ADDITIVE	4/33	0.04, 0.06, 0.08, 0.10, 0.12, 0.14, 0.15, 0.16, 0.18%	Potassium dichromate	25 mm cell W680/OG/25	% by volume of diethylene glycol monomethyl ether in aviation fuels.
24 44 10	D	ANTHICING ADDITIVE 0 - 0.2	4/44A	0, 0.05, 0.07, 0.08, 0.10, 0.12, 0.15, 0.20%	Hexanitrate ammonium cerate	13.5 mm cells DB 424	As above; conforms to NATO requirements.
<b>QUINIZARIN IN MARKED OILS</b>							
24 43 10	C	ROADSIDE TEST	4/43A	10, 20, 30, 40, 50, 60, 80, 100% quinizarin	Sodium hydroxide extraction	Extraction tube AF 262	Roadside test to determine quinizarin in marked oils as prescribed by HM Customs & Excise. Test kit 422310.
24 43 20	C	WAREHOUSE TEST	4/43B	40, 50, 60, 80, 100, 120, 140, 200% quinizarin	Sodium hydroxide extraction	Extraction tube AF 260	Available as test kit, AF 626.
24 43 30	C	ROADSIDE TEST	4/43C	10, 20, 30, 40, 50, 60, 80, 100% quinizarin	Decalin extraction	40 mm cells DB 428, portable lighting unit	To IP 298/80.
<b>CARBONISABLE SUBSTANCES</b>							
24 46 00	C	INSOLUBLE CONTENT OF DIESEL ENGINE OIL	4/46	0.2, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0% insolubles	Colour match with sample diluted with white spirit	13.5 mm cells DB 424	Determination of insolubles in lubricating oil. Test kit, AF 508.
29 16 10	C	WHITE MINERAL OIL	-	Pass/fail, single filter	Sulphuric acid wash	Tube AF 260	Quality testing of white mineral (ASTM D 565).
29 64 90	C	LIQUID PARAFFIN	-	Pass/fail, single filter	Sulphuric acid wash	10 mm cell W680/OG/10	British Pharmacopoeia sulphuric acid test for carbonisable substances in liquid paraffin.
<b>LEAD CONTENT</b>							
25 17 00	B	TRACE CONCENTRATIONS OF LEAD	5/17	0.002, 0.004, 0.006, 0.008, 0.010, 0.012, 0.014, 0.016, 0.018, 0.02 mg Pb	Dithizone	5 mm cell W680/OG/5 20 mm cell W680/OG/20	Aviation turbine fuels and light petroleum distillates. As specified in IP 224; parts per billion to parts per million.
29 65 91	C	TRACE CONCENTRATIONS OF LEAD	-	0, 1, 2, 3, 4, 6, 8, 10, 15 ppb	Dithizone	13 mm cells W680/OG 13	Lead in gasoline or naphthas, UOP Method 350.
	A	HYDROGEN SULPHIDE IN PROCESS GAS			Bismuth nitrate	Nessler cylinders AF 306/P	SRUAN 7

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<b>AGGREGATES, MISCELLANEOUS QUALITY TESTS</b>							
24 06 00	C	SAND QUALITY (ORGANIC CONTENT)	4/6	Pass/fail	Sodium hydroxide	13.5 mm cell DB 424	Approximate test to indicate the extent of organic impurity in sand.
29 01 30	C	ORGANIC IMPURITIES IN FINE AGGREGATES	-	5, 8, 11, 14, 16 Gardner (1933)	Sodium hydroxide	Special glass bottles	Organic impurities in fine aggregates (ASTM C 40).
<b>MEDICAL AND CLINICAL TESTS</b>							
25 46 00	C	<b>ALPHA AMYLASE IN BLOOD OR URINE BILIRUBIN</b>	5/46	25, 100, 150, 175, 200, 225, 250, 300, 350 Somogyi units/100 ml	Starch and iodine	13.5 mm cells DB 424	Diagnosis of acute pancreatitis (damage to pancreas).
25 03 00	B	BILIRUBIN	5/3	0.2, 0.4, 0.6, 0.8, 1.0, 1.25, 1.5, 1.75, 2.0 mg/100 ml	Sulphanilic acid	13.5 mm cells DB 424	Van den Bergh's method.
25 04 00	B	ICTERUS INDEX	5/4	1, 3, 5, 7, 9, 11, 13, 15, 17 Icterus Index	Comparison against serum	13.5 mm cells DB 424	Meulengracht's method.
25 42 00	B	SERUM BILIRUBIN	5/42	1, 2, 3, 4, 5, 6, 7, 8, 9 mg/100 ml	Lathe & Ruthven	13.5 mm cells DB 424	Direct and total pigment.
<b>CHOLESTEROL</b>							
25 15 00	B	CHOLESTEROL	5/15	80, 120, 160, 200, 250, 300, 350, 400, 500 mg/100 ml	Acetic anhydride	Stoppered tubes AF224	Diagnosis of cholesterol levels.
25 45 00	B	CHOLESTEROL	5/45	150, 200, 250, 300, 350, 400, 450, 500, 550 mg/100 ml	Ferric chloride/sulphuric acid	13.5 mm cells DB 424	
25 30 00	B	<b>CHOLINESTERASE, ACTIVITY IN BLOOD</b>	5/30	0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5, 100%	Bromothymol blue and substrate	2.5 mm cells W680/OG/2.5	Rapid testing of exposure to organo phosphorus insecticide. Test Kit AF 267.
<b>HAEMOGLOBIN CONTENT OF BLOOD</b>							
25 08 10	B	HAEMOGLOBIN 20 - 58%	5/8A	20, 24, 28, 32, 36, 40, 46, 52, 58%	Direct colour of blood	0.004" blood cell, W670	Harrison's method.
25 08 20	B	HAEMOGLOBIN 64 - 130%	5/8B	64, 70, 76, 84, 92, 100, 110, 120, 130%	Direct colour of blood	0.004" blood cell, W670	
25 37 00	B	HAEMOGLOBIN 8 - 16	5/37	8, 9, 10, 11, 12, 13, 14, 14.6, 16 g/100ml	Oxyhaemoglobin	13.5 mm cells DB 424	
25 37 80	B	HAEMOGLOBIN 3 - 14	5/37X	3, 4, 5, 6, 7, 8, 10, 12, 14 g/100ml	Oxyhaemoglobin	13.5 mm cells DB 424	
25 37 90	B	HAEMOGLOBIN 4 - 16	5/37Z	4, 5.5, 7, 8.5, 10, 11.5, 13, 14.5, 16 g/100ml	Oxyhaemoglobin	13.5 mm cells DB 424	
25 50 00	B	<b>IRON IN SERUM</b>	5/50	25, 50, 75, 100, 125, 150, 175, 200, 225 micrograms/100 ml	Bathophenanthroline	13.5 mm cells DB 424	Diagnosis of anaemias, hepatitis.
25 56 00	C	<b>LACTATE DEHYDROGENASE</b>	5/56	83, 167, 250, 333, 416, 500, 583, 667, 882	Lactate and 2:4 dinitrophenyl hydrazine	13.5 mm cells DB 424	Diagnosis of heart and liver disorders.
25 17 00	B	<b>LEAD IN URINE/FAECES</b>	5/17	2, 4, 6, 8, 10, 12, 14, 16, 20 micrograms	Dithizone	13.5 mm cells DB 424	Diagnosis of lead contamination.
<b>pH VALUE OF BLOOD/URINE</b>							
25 18 10	B	pH OF BLOOD 7 - 7.4	5/18A	7.0, 7.05, 7.1, 7.15, 7.2, 7.25, 7.3, 7.35, 7.4	Saline phenol red	13.5 mm cells DB 424	
25 18 20	B	pH OF BLOOD 7.4 - 7.8	5/18B	7.4, 7.45, 7.5, 7.55, 7.6, 7.65, 7.7, 7.75, 7.8	Saline phenol red	13.5 mm cells DB 424	
22 12 20	A	pH OF URINE 4 - 11	2/1P	4, 5, 6, 7, 8, 9, 10, 11	Universal	13.5 mm cells DB 424	Diagnosis of alkalaemia/acidaemia.
25 44 00	C	<b>PHENOLSULPHONPH-THALEIN EXCRETIONTEST</b>	5/44	5, 10, 15, 20, 25, 30 35, 40, 45%	Phenolsulphonphthalein	13.5 mm cells DB 424	Diagnosis of renal (kidney) efficiency.
25 06 00	C	<b>PHENYLPYRUVIC ACID PHOSPHATASE IN BLOOD</b>	5/6	20, 40, 50, 60, 70, 80, 90, 100 mg/100 ml	2:4 dinitrophenyl hydrazine	5 mm cell W680/OG/5	In urine.
<b>ALKALINE/ACID</b>							
25 12 00	C	ALKALINE/ACID	5/12	8, 12, 16, 20, 25, 30, 40, 50, 60 KA units	Phosphotungstic-phosphomolybdic acid	13.5 mm cells DB 424	Diagnosis of certain disorders of bone, liver disease.
25 53 00	C	ALKALINE/ACID	5/53	Alkaline 2, 4, 6, 8, 10, 2, 14, 16, 18 KA units (Acid 1, 2, 3, 4, 5, 6, 7, 8, 9, KA units)	4 amino antopyrene/pot ferricyanide	13.5 mm cells DB 424	Diagnosis of certain disorders of bone, liver disease.
25 55 00	C	FORMOL STABLE ACID	5/55	1, 2, 3, 4, 5, 6, 7, 8, 9 KA units	4 amino antopyrene/pot ferricyanide	13.5 mm cells DB 424	Diagnosis of carcinoma of the prostate.
25 14 00	B	<b>PHOSPHORUS, INORGANIC, IN BLOOD</b>	5/14	0.02, 0.03, 0.04, 0.05, 0.06, 0.08, 0.1, 0.12, 0.16 mg P in 1 ml blood	Amino naphthol sulphonic acid	13.5 mm cells DB 424	Diagnosis of certain bone disorders, especially rickets; diseases of the parathyroid glands.

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		<b>PROTEINS</b>					
25 05 10	B	PROTEINS 20 - 180	5/5A	20, 40, 60, 80, 100, 120, 140, 160, 180 mg/100 ml	Copper sulphate (Buret Method)	13.5 mm cells DB 424	Diagnosis of liver disease.
25 05 20	B	PROTEINS 200 - 340	5/5B	200, 220, 240, 260, 280, 300, 320, 340, 360 mg/100 ml	Copper sulphate (Buret Method)	13.5 mm cells DB 424	
25 54 10	B	SERUM PROTEINS	5/54A	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5 g/100 ml	Copper sulphate (Buret Method)	13.5 mm cells DB 424	Diagnosis of chronic infective and neoplastic conditions.
25 54 20	B	SERUM PROTEINS	5/54B	4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5 g/100 ml	Copper sulphate (Buret Method)	13.5 mm cells DB 424	
25 51 00	C	<b>SALICYLATE IN BLOOD SUGAR/GLUCOSE IN BLOOD</b>	5/51	15, 25, 35, 45, 55, 65, 80, 95, 110 mg/100ml	Ferric nitrate	13.5 mm cells DB 424	Diagnosis of salicylate 'Aspirin' poisoning.
25 02 10	B	SUGAR IN BLOOD	5/2A	60, 80, 100, 120, 140, 160, 180, 200, 220 mg/100 ml	Phosphomolybdic acid	Folin tube, 13.5 mm cells DB 424	Total reducing substances in blood.
25 02 20	B	SUGAR IN BLOOD	5/2B	240, 260, 280, 300, 320, 340, 360, 380, 400 mg/100 ml	Phosphomolybdic acid	Folin tube, 13.5 mm cells DB 424	Total reducing substances in blood.
25 02 30	B	SUGAR IN BLOOD	5/2C	20, 30, 40, 50, 60, 70, 80, 90, 100 mg/100 ml	Phosphomolybdic acid	Folin tube, 13.5 mm cells DB 424	Total reducing substances in cerebro-spinal fluid and other body fluids.
25 36 10	B	SUGAR IN BLOOD	5/36A	40, 60, 80, 100, 120, 140, 160, 180, 200 mg/100 ml	Phosphomolybdic acid	13.5 mm cells DB 424	Harding's Method for true sugar values.
25 36 20	B	SUGAR IN BLOOD	5/36B	220, 240, 260, 280, 300, 320, 340, 370, 400 mg/100 ml	Phosphomolybdic acid	13.5 mm cells DB 424	Harding's Method for true sugar values.
25 48 00	B	GLUCOSE IN BLOOD	5/48	50, 75, 100, 125, 150, 175, 200, 250 mg/100 ml	4 amino phenozone	13.5 mm cells DB 424	True glucose value in blood.
253200	C	<b>SULPHOBROMO-PHTHALEIN RETENTION</b>	5/32	0, 5, 10, 15, 20, 25, 30, 40, 50%		13.5 mm cells DB 424	Diagnosis of liver disease.
25 10 10	C	<b>SULPHONAMIDES IN BLOOD/URINE</b>	5/10A	0.5, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0 mg/100 ml	Diazotisation	13.5 mm cells DB 424	Therapeutic response of sulpho-namides in treating meningococcal infections.
25 31 00	C	<b>TRICHLORO-ACETIC ACID UREA IN BLOOD</b>	5/31	10, 20, 30, 40, 50, 75, 100, 150, 200 ppm	Pyridine	13.5 mm cells DB 424	Diagnosis of exposure to trichlorethylene solvents.
25 43 00	B	SERUM/PLASMA UREA	5/43	20, 40, 60, 80, 100, 120, 140, 160, 180 mg/100 ml	Diacetyl monoxime	13.5 mm cells DB 424	
25 09 10	B	SERUM/PLASMA UREA	5/9A	20, 30, 40, 50, 60, 70, 80, 90, 100 mg/100 ml	Nessler's Reagent/ Urease	13.5 mm cells DB 424	Diagnosis of kidney disorder and other conditions.
25 09 20	B	SERUM/PLASMA UREA	5/9B	110, 120, 130, 140, 150, 160, 180, 200, 220 mg/100 ml	Nessler's Reagent/ Urease	13.5 mm cells DB 424	
25 47 00	C	URIC ACID IN SERUM	5/47	1, 2, 3, 4, 5, 6, 7, 8, 9 mg/100 ml	Alkaline phosphotungstate	13.5 mm cells DB 424	Diagnosis of kidney disorder, gout, leukaemia and other conditions.
<b>AIR MONITORING TESTS</b>							
		<b>CHROMIUM</b>					
26 62 00	C	CHROMIUM (VI) IN AIR	6/62	0, 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.1 mg/m3	Diphenyl carbazide	13.5 mm cells DB 424	Health & Safety Executive MDHS 52/3.
26 63 00	D	CHROMIUM (TOTAL) IN AIR	6/63	0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1 mg/m3	Diphenyl carbazide	13.5 mm cells DB 424	Health & Safety Executive MDHS 67.
		<b>LEAD</b>					
26 61 00	C	LEAD IN AIR	6/61	0, 0.2, 0.4, 0.8, 1.0 mg/m3	Dithizone	Tubes, AF 260	UK Lead Regulations.
29 65 91	C	LEAD ALKYL IN AIR	-	0, 1, 2, 3, 4, 6, 8, 10, 15 ppb	Dithizone	13 mm cells W680/OG 13	