VWR®
indicators

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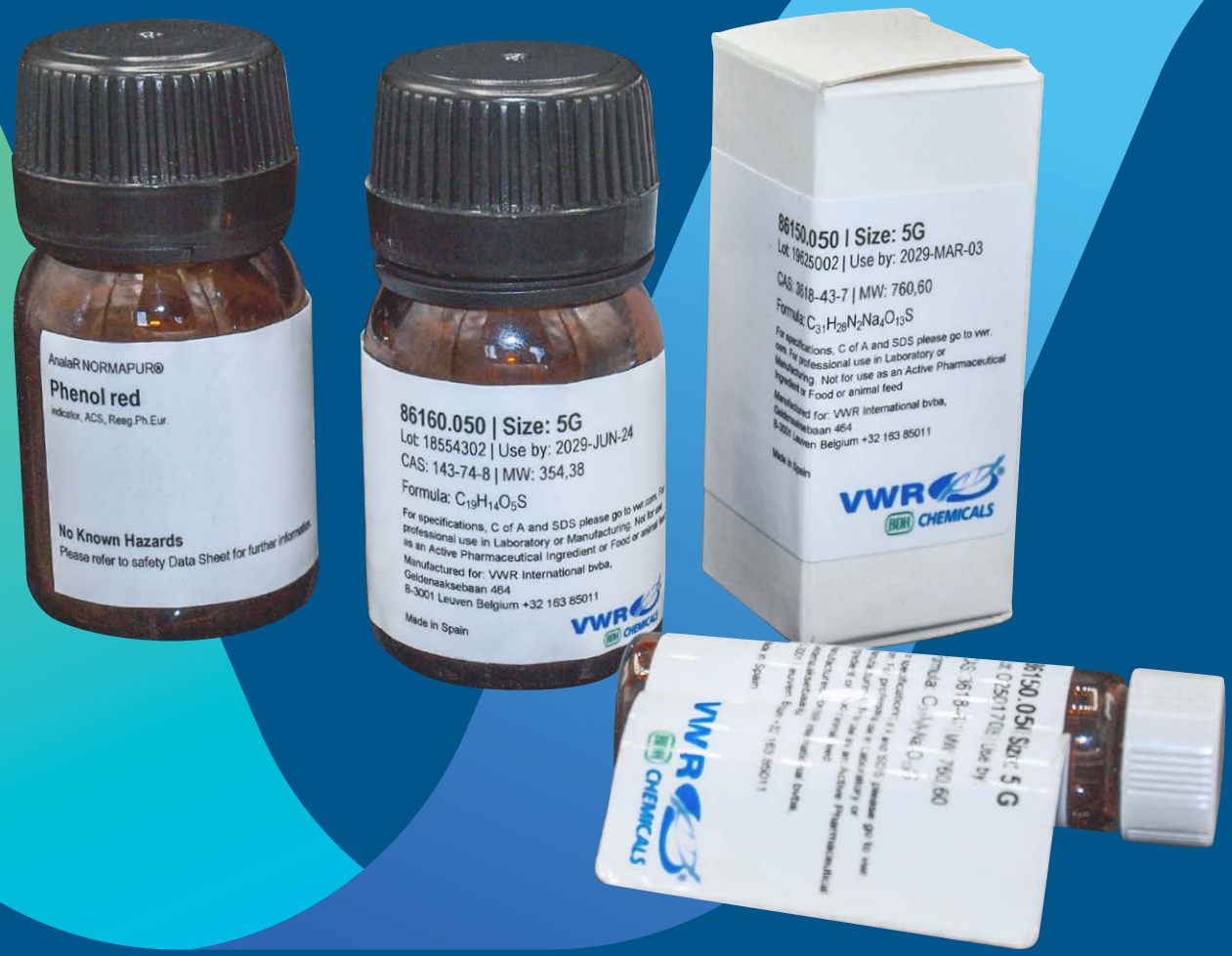

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features and benefits

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ECONOMICAL
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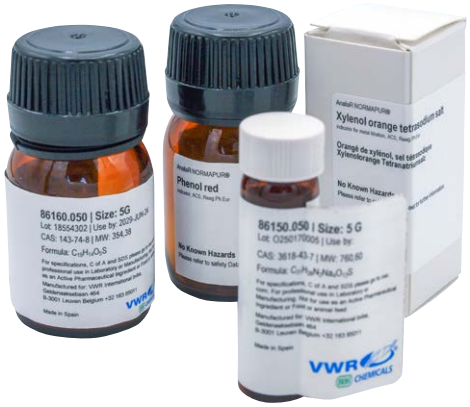

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Acid-alkali indicators or pH indicators

An acid-alkali indicator or pH indicator is a colouring agent which changes colour to display whether an aqueous solution reacts as an acid or an alkali. In contrast to pH indicator strips or indicator papers, which are mainly used to find the current pH value.

The main use of pH indicators in laboratory applications is for the quantitative definition of the acid or alkali content of a solution (endpoint indication/titration). When used as a rapid endpoint indicator of an acid-base titration, the indicator shows a different colour at the equivalence point compared to before it. This allows the user to visually recognise the endpoint of a titration.
A pH indicator is a halochromic chemical compound added in small amounts to a solution, so the pH (acidity or basicity) of the solution can be determined visually.

Normally, the indicator causes the colour of the solution to change depending on the pH.

pH indicators are frequently used in titrations in analytical chemistry and biology to determine the extent of a chemical reaction. Because of the subjective choice (determination) of colour, pH indicators are susceptible to show imprecise results.

For applications requiring accurate measurement of pH, a pH meter is frequently used. (see our complete brochure VWR FOR ELECTROCHEMISTRY). Sometimes, for some cloudy or colloidal solutions, some strips containing some indicators can be used with success (see our brochure VWR Strips).

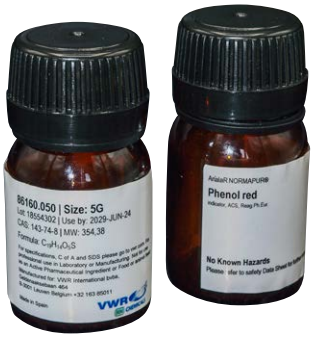
Transition ranges may shift slightly depending on different parameters. Here are some recommendations that need to be followed.

The different tables below show our pH indicators with their operating range, colour changes and the recipe to prepare.

pH INDICATORS

BY pH RANGE

Description	CAS No.	End-point (pH / colour change)	Solution preparation recommendations	Cat. No.
Crystal violet indicator (C.I. 42555) USP	548-62-9	0,8 - 2,6 Yellow - purple	0,1 g in 100 ml of ethanol 70%	**0528***
Thymol blue indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	76-61-9	1,2 - 2, 8 Red - yellow/orange	Dissolve 0,04 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of sodium hydroxide solution 0,001 N	**86155***
Bromophenol blue ACS	115-39-9	3,0 - 4,6 Yellow - blue	Dissolve 0,04 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of sodium hydroxide solution 0,001 N	**0449***
Congo red (C.I. 22120) TECHNICAL	573-58-0	3,0 - 5,2 Blue - yellow/orange	0.2 g in 100 ml of water	**34140***
Methyl orange indicator (C.I. 13025) ACS, Reag. Ph. Eur.	547-58-0	3,1 - 4,4 Red - yellow/orange	Dissolve 0,04 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of water	**86151***
Indicator '4,5'		3,5 - 6,0 3,5 orange/red; 4,4 orange/grey; 4,5 pure grey; 4,6 bluish grey; 6,0 deep blue		**21041***
Bromocresol green solid (pH indicator)	76-60-8	3,8 - 5,4 Yellow - blue	Dissolve 0,1 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of sodium hydroxide solution 0,001 N	**20012***
Alizarin red S mono sodium salt (C.I. 58005), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	130-22-3	4,3 - 6,3 Yellow - pink	Dissolve 0,1 g in 100 ml of ethanol 50% or 0,1 g in 100 ml of water	**86156***
Methyl red (C.I. 13020), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	493-52-7	4,4 - 6,2 Red - yellow/orange	0,1 g in 100 ml of ethanol 96%	**86159***
Bromothymol blue ACS	76-59-5	6,0 - 7,6 Yellow - blue	Dissolve 0,1 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of sodium hydroxide solution 0,001 N	**0431***
Phenol red indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	143-74-8	6,4 - 8,2 Yellow - red/purple	Dissolve 0,1 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of sodium hydroxide solution 0,001 N	**86160***
Thymol blue indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	76-61-9	7,8 - 9,5 Yellow - green/blue	Dissolve 0,1 g in 100 ml of ethanol 20% or 0,04 g in 100 ml of sodium hydroxide solution 0,001 N	**86155***
Phenolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	77-09-8	8,2 - 9,8 Colourless - red/purple	0,1 g in 100 ml of ethanol 96%	**86158***
o Cresolphtaleine 20 g/l in ethanol 70%	596-27-0	8,2 - 9,8 Colourless - red	Ready to use	**84599***
Thymolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	125-20-2	9,3 - 10,5 Colourless - blue	0,1 g in 100 ml of ethanol 50%	**86157***
Alizarin red S mono sodium salt (C.I. 58005), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	130-22-3	9,4 - 12,0 Brown/orange - purple		**86156***
Indigo carmine analytical reagent (C.I. 73015)	860-22-0	11,5 - 13,0 Blue - yellow	Dissolve 0,25 g in 100 ml of ethanol 50% or 1 g in 100 ml of water	**22537***



pH INDICATORS

IN ALPHABETICAL ORDER

Description	CAS No.	End-point (pH / colour change)	Pk	Cat. No.
Alizarin red S mono sodium salt (C.I. 58005), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	130-22-3	4,3 - 6,3 & 9,4 - 12,0 Yellow - pink & brown/orange - purple	25 g	86156.150
Alizarin red S mono sodium salt (C.I. 58005), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	130-22-3	4,3 - 6,3 & 9,4 - 12,0 Yellow - pink & brown/orange - purple	100 g	86156.180
Bromocresol green solid (pH indicator)	76-60-8	3,8 - 5,4 Yellow - blue	25 g	200125B
Bromocresol green 0,04% ethanol solution	76-60-8	3,8 - 5,4 Yellow - blue	250 ml	34301.237
Bromophenol blue ACS	115-39-9	3,0 - 4,6 Yellow - blue/purple	25 g	0449-25G
Bromophenol blue ACS	115-39-9	3,0 - 4,6 Yellow - blue/purple	50 g	0449-50G
Bromophenol blue ACS	115-39-9	3,0 - 4,6 Yellow - blue/purple	100 g	0449-100G
Bromophenol blue 0,04% ethanol solution	115-39-9	3,0 - 4,6 Yellow - blue	250 ml	34307.237
Bromophenol blue sodium salt ACS	62625-28-9	3,0 - 4,6 Yellow - blue	50 g	0312-50G
Bromophenol blue sodium salt ACS	62625-28-9	3,0 - 4,6 Yellow - blue	100 g	0312-100G
Bromothymol blue ACS	76-59-5	6,0 - 7,6 Yellow - blue	25 g	0431-25G
Bromothymol blue ACS	76-59-5	6,0 - 7,6 Yellow - blue	50 g	0431-50G
Bromothymol blue 0,04% ethanol solution	76-60-8	6,0 - 7,6 Yellow - blue	250 ml	34303.234
Congo red (C.I. 22120) TECHNICAL	573-58-0	3,0 - 5,2 Blue - yellow/orange	100 g	34140.184
Congo red 1% aqueous solution	573-58-0	3,0 - 5,2 Blue - yellow/orange	1 l	31727.295
o Cresolphtaleine 20 g/l in ethanol 70%	596-27-0	8,2 - 9,8 Colourless - red	100 ml	84599.180
o Cresolphtaleine 20 g/l in ethanol 70%	596-27-0	8,2 - 9,8 Colourless - red	500 ml	84599.260
Crystal violet indicator (C.I. 42555) USP	548-62-9	0,8 - 2,6 Yellow - purple	100 g	0528-100G
Indigo carmine analytical reagent (C.I. 73015)	860-22-0	11,5 - 13,0 Blue - yellow	25 g	22537.138
Methyl orange indicator (C.I. 13025) ACS, Reag. Ph. Eur.	547-58-0	3,1 - 4,4 Red - yellow/orange	25 g	86151.150
Methyl orange indicator (C.I. 13025) ACS, Reag. Ph. Eur.	547-58-0	3,1 - 4,4 Red - yellow/orange	100 g	86151.180
Methyl orange 0,04% aqueous solution TECHNICAL	547-58-0	3,1 - 4,4 Red - yellow/orange	250 ml	31720.230
Methyl orange 0,04% aqueous solution TECHNICAL	547-58-0	3,1 - 4,4 Red - yellow/orange	1 l	31720.292
Methyl red (C.I. 13020), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	493-52-7	4,4 - 6,2 Red - yellow/orange	25 g	86159.150
Methyl red (C.I. 13020), indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	493-52-7	4,4 - 6,2 Red - yellow/orange	100 g	86159.180
Methyl red 0,02% ethanol solution	493-52-7	4,4 - 6,2 Red - yellow/orange	250 ml	34302.231
Phenol red indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	143-74-8	6,4 - 8,2 Yellow - red/purple	5 g	86160.050
Phenol red indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	143-74-8	6,4 - 8,2 Yellow - red/purple	25 g	86160.150
Phenol red indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	143-74-8	6,4 - 8,2 Yellow - red/purple	100 g	86160.180
Phenol red 0,04% ethanol solution	143-74-8	6,4 - 8,2 Yellow - red/purple	250 ml	34304.237
Phenolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	77-09-8	8,2 - 9,8 Colourless - red/purple	25 g	86158.150
Phenolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	77-09-8	8,2 - 9,8 Colourless - red/purple	100 g	86158.180
Phenolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	77-09-8	8,2 - 9,8 Colourless - red/purple	500 g	86158.260
Phenolphthalein GPR RECTAPUR®	77-09-8	8,2 - 9,8 Colourless - red/purple	250 g	26237.231
Phenolphthalein 0,2% ethanol solution TECHNICAL	77-09-8	8,2 - 9,8 Colourless - red/purple	1 l	31724.295

pH INDICATORS

BY ALPHABETICAL ORDER

Description	CAS No.	End-point (pH / colour change)	Pk	Cat. No.
Phenolphthalein 1% isopropanol solution	77-09-8	8,2 - 9,8 Colourless - red/purple	1 l	**8626.1000**
Phenolphthalein 1% indicator solution (pH indicator)	77-09-8	8,2 - 9,8 Colourless - red/purple	250 ml	**210893Q**
Phenolphthalein 1% indicator solution (pH indicator)	77-09-8	8,2 - 9,8 Colourless - red/purple	1 l	**210894R**
Thymol blue indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	76-61-9	1,2 - 2, 8 & 7,8 - 9,5 Red - yellow/orange & yellow/green/blue	5 g	**86155.050**
Thymol blue indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	76-61-9	1,2 - 2, 8 & 7,8 - 9,5 Red - yellow/orange & yellow/green/blue	25 g	**86155.150**
Thymol blue 0,04% ethanol solution	76-61-9	1,2 - 2, 8 & 7,8 - 9,5 Red - yellow/orange & yellow/green/blue	250 ml	**34300.234**
Thymolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	125-20-2	9,3 - 10,5 Colourless - blue	5 g	**86157.050**
Thymolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	125-20-2	9,3 - 10,5 Colourless - blue	25 g	**86157.150**
Thymolphthalein indicator AnalaR® NORMAPUR® ACS, Reag. Ph. Eur.	125-20-2	9,3 - 10,5 Colourless - blue	100 g	**86157.180**
Universal indicator ethanol solution TECHNICAL			1 l	**34352.290**
Indicator "4,5"		3,5 - 6,0 3,5 orange/red; 4,4 orange/grey; 4,5 pure grey; 4,6 bluish grey; 6,0 deep blue	500 ml	**210414M**
Indicator "4,5"		3,5 - 6,0 3,5 orange/red; 4,4 orange/grey; 4,5 pure grey; 4,6 bluish grey; 6,0 deep blue	2,5 l	**210416X**

Some recommendations

- For titration of strong acids with strong bases, many indicators which present a transition point in the low acid, neutral or low basic zone can be used
- Weak acids can be titrated with strong bases using indicators in the low alkaline range
- Weak bases can be titrated with strong base acids using indicators which turn into the weakly acidic domain
- Weak base titrations with weak and vice acids only give inaccurate results

Some mistakes can be avoided

- **Presence of salt**
  This depends on the nature of the salt or its concentration because the balance of an indicator can be slightly displaced by its presence.
- **Indicator's nature**
  Depending on the nature of the acid or basic salt within a solution little or no buffered, e.g. drinking water), mistakes can be observed.
- **Proteins, alkaloids**
  Some solutions containing proteins or alkaloids can generate incorrect results. There are particular pH strips that can be recommended for such titrations.
- **Solvents**
  Some aqueous solutions with an organic solvent can present incorrect results (e.g. ethanol 70% content can generate an uncertainty of 1,5% of a pH unit.
- **Temperature**
  With hot solutions, the transition point can move significantly.

Redox indicators

A redox indicator is an indicator compound that changes colour at specific potential differences.

A redox indicator compound must have a reduced and oxidised form with different colours, and the redox process must be reversible. In addition, the oxidation-reduction equilibrium needs to be reached quickly. Only a few classes of compounds are useful as redox indicators:

- Phenanthroline and bipyridine metal complexes: Metallorganic systems change colour as the metal changes its oxidation state.
- Organic redox compounds: With these indicators a proton participates in the redox reaction. An example of this type of indicator is methylene blue.

REDOX INDICATORS

Description	CAS No.	Redox potential		Oxidised	Reduced	Pk	Cat. No.
		E_o [pH 0]	E_m [pH 7]				
2,6 Dichlorophenolindophenol sodium salt hydrate analytical reagent	620-45-1	+0,67	+0,23	Blue	Colourless	5 g	**23347.105**
N,N Dimethyl 1,4 phenylenediammonium dichloride analytical reagent	536-46-9	+0,68	_	Dark blue	Colourless	25 g	**23484.132**
Diphenylamine-4-sulphonic acid sodium salt ACS	6211-24-1	+0,69	_	Purple - red	Colourless	10 g	**86161.100**
Barium diphenylamine-4-sulphonate TECHNICAL	6211-24-1	+0,70	_	Purple - red	Colourless	5 g	**84003.100**
Ferroine indicator for COD determination (NFT 90-101 standard) ready to use	14634-91-4	+0,71	_	Blue	Orange - red	100 ml	**30890.188**
Indigo carmine analytical reagent (C.I. 73015)	860-22-0	+0,72	-0,11	Blue	Yellow -ish	25 g	**22537,138**
Methylene blue (C.I. 52015)		+0,73	+0,01	Blue	Colourless	100 g	**34015.182**
Neutral red for microscopy Gurr	553-24-2	+0,74	-0,29	Red - purple	Colourless	25 g	**340564A**
Neutral red for microscopy Gurr	553-24-2	+0,75	-0,29	Red - purple	Colourless	100 g	**340564A**
1,10-Phenanthroline monohydrate analytical reagent	5144-89-8	+0,76	+1,06	Light blue	Red	5 g	**26227.101**

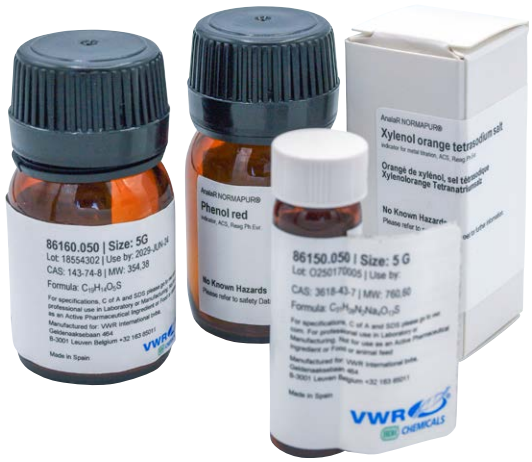
Complex or metal indicators

In analytical chemistry, complexometric indicators or metal indicators are used in titrations to indicate the exact moment when all the metal ions in a solution are sequestered by a chelating agent (most usually EDTA).

Complexometric titration is a form of volumetric analysis in which the formation of a coloured complex is used to indicate the endpoint of a titration. Complexometric titrations are particularly useful for the determination of a mixture of different metal ions in solution. An indicator capable of producing an unambiguous colour change is usually used to detect the endpoint of a titration. Complexometric titrations are those reactions where a simple ion is transformed into a complex ion, and the equivalence point is determined by using metal indicators or an electrometer.

Some recommendations

Some complexometric indicators are sensitive to air and are destroyed. When such a solution loses colour during titration, a drop or two of fresh indicator may have to be added.



COMPLEX & METAL INDICATORS

Description	CAS No.	For the determination of	Pk	Cat. No.
1,5 Diphenylcarbazide analytical reagent	140-22-7	Hg, Ni, Pb, V	10 g	**23550.120**
1,5 Diphenylcarbazide analytical reagent	140-22-7	Hg, Ni, Pb, V	50 g	**23550.153**
Dithizone analytical reagent	60-10-6	Ag, Au, Bi, Cd, Co, Cu, Fe, Hg, In, Mn, Ni, Pb, Sn, Zn	5 g	**23570.106**
Eriochrome black T (C.I. 14645) TECHNICAL indicator for complexometry	1787-61-7	Ba, Ca, Cd, Hg, In, Lanthanides, Mg, Mn, Pb, Zn, Zr	100 g	**26002.183**
Eriochromocyanine AnalaR® NORMAPUR® ACS Reag. Ph. Eur.	3564-18-9	Al, Ca, Cu, Fe, Mg, Th, Zr	25 g	**86168.130**
Murexide analytical reagent	3051-09-0	Ag, Ca , Co, Cu, Mn, Ni, Sc, Sn, Th, Ti, Zn, Zr	10 g	**25717.120**
Phthalein purple AnalaR® NORMAPUR® ACS Reag. Ph. Eur.	2411-89-4	Ba, Ca, Cd, Mg, Sr	1 g	**86166.010**
Phthalein purple AnalaR® NORMAPUR® ACS Reag. Ph. Eur.	2411-89-4	Ba, Ca, Cd, Mg, Sr	5 g	**86166.050**
Xylenol orange, tetrasodium salt ACS Reag. Ph. Eur.	3618-43-7	Bi, Ca, Cd, Co, Cu, Fe, Hg, In, Lanthanides, Mg, Mn, Pb, Sc, Th, Ti, U, V, Y, Zn, Zr	1 g	**86150.010**
Xylenol orange, tetrasodium salt ACS Reag. Ph. Eur.	3618-43-7	Bi, Ca, Cd, Co, Cu, Fe, Hg, In, Lanthanides, Mg, Mn, Pb, Sc, Th, Ti, U, V, Y, Zn, Zr	5 g	**86150.050**
Xylenol orange, tetrasodium salt TECHNICAL	3618-43-7	Bi, Ca, Cd, Co, Cu, Fe, Hg, In, Lanthanides, Mg, Mn, Pb, Sc, Th, Ti, U, V, Y, Zn, Zr	5 g	**26086.103**

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REAGENTS PH. EUR.

BY CODE PH. EUR.

Code Ph. Eur.	Description	Pk	Shelf life months	Cat. No.
1000401	Acetic acid (30%) Reag. Ph. Eur.	1 l	24	87758.290
1000402	Acetic acid diluted (12%) Reag. Ph. Eur.	1 l	24	87759.290
1000501	Acetic acid anhydrous R1 Reag. Ph. Eur.	1 l	12	87760.290
1000901	Acetylacetone Reag. Ph. Eur.	100 ml	12	87761.180
1002601	Alzarine S solution Reag. Ph. Eur.	100 ml	12	87763.180
1002701	Aluminium chloride solution Reag. Ph. Eur.	100 ml	12	87764.180
1002702	Aluminium chloride Reag. Ph. Eur.	1 l	12	87765.290
1003701	4-Aminohippuric acid Reag. Ph. Eur.	100 ml	12	87973.180
1004701	Ammonia 17% Reag. Ph. Eur.	100 ml	12	87707.180
1004702	Ammonia diluted R1 (6 mol/l) Reag. Ph. Eur.	1 l	12	87682.290
1004703	Ammonia diluted R2 (2 mol/l) Reag. Ph. Eur.	1 l	12	87766.290
1004704	Ammonia diluted R3 (0,1 mol/l) Reag. Ph. Eur.	1 l	12	87767.290
1005201	Ammonium carbonate solution (1 mol/l) Reag. Ph. Eur.	1 l	24	87768.290
1005301	Ammonium chloride solution (2 mol/l) Reag. Ph. Eur.	1 l	24	87769.290
1005702	Ammonium heptamolybdate solution 10% Reag. Ph. Eur.	1 l	12	87770.290
1005703	Ammonium heptamolybdate solution R2 10% Reag. Ph. Eur.	1 l	12	87771.290
1005704	Ammonium heptamolybdate solution R3 Reag. Ph. Eur.	1 l	12	87772.290
1005705	Ammonium heptamolybdate solution R4 Reag. Ph. Eur.	500 ml	3	87773.260
1005901	Ammonium oxalate solution 4% Reag. Ph. Eur.	1 l	24	87774.290
1006701	Ammonium thiocyanate solution (1 mol/l) Reag. Ph. Eur.	1 l	24	87775.290
1006801	Ammonium vanadate solution Reag. Ph. Eur.	1 l	12	87776.290
1007301	Anisaldehyde solution Reag. Ph. Eur.	100 ml	12	87777.180
1007701	Antimony chloride solution Reag. Ph. Eur.	100 ml	12	87779.180
1007702	Antimony chloride solution R1 Reag. Ph. Eur.	100 ml	6	87780.180
1008301	Arsenic solution Reag. Ph. Eur.	100 ml	12	87781.180
1008401	Ascorbic acid solution Reag. Ph. Eur.	100 ml	12	87782.180
1009301	Barium chloride solution R1 (0,25 mol/l) Reag. Ph. Eur.	1 l	24	87783.290
1009302	Barium chloride solution R2 (0,15 mol/l)Reag. Ph. Eur.	1 l	24	87784.290
1009401	Barium hydroxide solution (0,15 mol/l) Reag. Ph. Eur.	1 l	24	87785.290
1011502	Bismuth subnitrate solution Reag. Ph. Eur.	500 ml	24	87786.260
1011601	Biuret Reag. Ph. Eur.	1 l	12	87787.290
1012202	Destaining solution Reag. Ph. Eur.	1 l	24	87788.290
1012802	Bromophenol blue solution R1 Reag. Ph. Eur.	100 ml	24	87795.180
1012902	Bromothymol blue solution R2 Reag. Ph. Eur.	100 ml	24	87797.180
1014601	Calcium chloride solution (0,5 mol/l) Reag. Ph. Eur.	1 l	24	87800.290
1014602	Calcium chloride solution (0,01 mol/l) Reag. Ph. Eur.	1 l	24	87801.290
1014603	Calcium chloride solution (0,02 mol/l) Reag. Ph. Eur.	1 l	24	87802.290
1015201	Calcium sulphate solution Reag. Ph. Eur.	1 l	12	87803.290
1017901	Chloral hydrate solution 80% (w/w) Reag. Ph. Eur.	100 ml	12	87804.180

REAGENTS PH. EUR.

BY CODE PH. EUR.

Code Ph. Eur.	Description	Pk	Shelf life months	Cat. No.
1022002	Red congo paper Reag. Ph. Eur.	50 Tests	12	87806.600
1022300	Copper edetate solution Reag. Ph. Eur.	1 l	12	87807.290
1022501	Copper sulphate solution Reag. Ph. Eur.	1 l	24	87808.290
1022600	Copper tetramine complex solution Reag. Ph. Eur.	100 ml	12	87809.180
1022901	Purple crystal solution Reag. Ph. Eur.	100 ml	12	87811.180
1023100	Cupri-citric solution Reag. Ph. Eur.	1 l	12	87812.290
1023200	Cupri-citric solution R1 Reag. Ph. Eur.	1 l	12	87813.290
1023300	Cupric-tartaric solution (I + II $^{500}/_{500}$) Reag. Ph. Eur.	1 l	12	87814.290
1023304	Cupric-tartaric solution R4 (I + II $^{500}/_{500}$) Reag. Ph. Eur.	1 l	12	87815.290
1029803	Dimethylaminobenzaldehyde solution R6 Reag. Ph. Eur.	100 ml	3	87816.180
1031301	Dinitrobenzoic acid solution Reag. Ph. Eur.	1 l	12	87819.290
1032001	Dioxane solution 0,1% Reag. Ph. Eur.	100 ml	12	87820.180
1032002	Dioxane solution 0,05% Reag. Ph. Eur.	100 ml	12	87821.180
1032102	Diphenylamine solution R1 Reag. Ph. Eur.	1 l	12	87823.290
1033301	Disodium hydrogenphosphate solution Reag. Ph. Eur.	1 l	24	87825.290
1033601	Borate solution Reag. Ph. Eur.	1 l	24	87826.290
1033903	Dithizone solution R2 Reag. Ph. Eur.	100 ml	12	87827.180
1034001	Divanadium pentoxide sulphuric Reag. Ph. Eur.	100 ml	24	87828.180
1035301	Ethyl acetate reagent Reag. Ph. Eur.	1 l	3	87829.290
1037702	Ammonium iron sulphate R2 Reag. Ph. Eur.	1 l	12	87830.290
1037704	Ammonium iron sulphate R5 Reag. Ph. Eur.	100 ml	12	87831.180
1037705	Ammonium iron sulphate R6 Reag. Ph. Eur.	100 ml	12	87832.180
1037801	Iron (III) chloride solution R1 (10,5%) Reag. Ph. Eur.	1 l	12	87833.290
1037802	Iron (III) chloride solution R2 Reag. Ph. Eur.	1 l	12	87834.290
1037804	Iron (III) chloride sulphamic acid Reag. Ph. Eur.	1 l	12	87836.290
1038100	Ferroin Reag. Ph. Eur.	100 ml	24	87702.180
1039101	Formaldehyde solution Reag. Ph. Eur.	100 ml	12	87837.180
1039201	Formamide reagent Reag. Ph. Eur.	100 ml	6	87838.180
1039401	Fuchsin solution decolorised Reag. Ph. Eur.	100 ml	12	87839.180
1039402	Fuchsin solution decolourised R1 Reag. Ph. Eur.	100 ml	12	87840.180
1043101	Holmium perchlorate solution Reag. Ph. Eur.	1 l	12	87841.290
1043501	Hydrochloric acid solution R1 (25%) Reag. Ph. Eur.	1 l	24	87842.290
1043503	Hydrochloric acid diluted (2 mol/l) Reag. Ph. Eur.	1 l	24	85848.290
1043504	Hydrochloric acid diluted R1 Reag. Ph. Eur.	1 l	24	85849.290
1043505	Hydrochloric acid diluted R2 Reag. Ph. Eur.	1 l	24	87843.290
1043507	Hydrochloric acid bromine Reag. Ph. Eur.	1 l	12	87845.290
1044301	Hydroxylamine alcoholic solution Reag. Ph. Eur.	100 ml	12	87847.180
1044302	Hydroxylamine basic (I + II $^{500}/_{500}$) Reag. Ph. Eur.	1 l	6	87848.290
1044303	Hydroxylamine basic R1 (I + II $^{500}/_{500}$) Reag. Ph. Eur.	200 ml	12	87849.220
1044304	Hydroxylamine solution R2 Reag. Ph. Eur.	100 ml	12	87850.180
1045200	Hypophosphoric reagent Reag. Ph. Eur.	1 l	6	87851.180
1045601	Indigo carmine solution Reag. Ph. Eur.	1 l	12	87852.290
1045602	Indigo carmine solution R1 Reag. Ph. Eur.	1 l	12	87853.290
1045805	Chloroform iodide solution Reag. Ph. Eur.	1 l	12	87855.290
1045806	Iodide solution R4 Reag. Ph. Eur.	1 l	12	87856.290
1045901	Iodide bromide reagent Reag. Ph. Eur.	100 ml	12	87714.180
1046300	Iodoplatinate reagent Reag. Ph. Eur.	1 l	12	87857.290
1046700	Iron salicylate solution Reag. Ph. Eur.	500 ml	6	87858.260
1048001	Lanthane nitrate solution Reag. Ph. Eur.	1 l	24	87859.290
1048101	Lead acetate on cotton Reag. Ph. Eur.	10 g	12	85868.130
1048102	Lead (II) acetate paper Reag. Ph. Eur.	50 Pce	12	85869.150
1048103	Lead acetate solution Reag. Ph. Eur.	1 l	6	87860.290
1048301	Lead nitrate solution Reag. Ph. Eur.	1 l	12	87861.290
1049801	Magnesium nitrate solution Reag. Ph. Eur.	1 l	12	87862.290
1050501	Malachite green solution Reag. Ph. Eur.	1 l	6	87863.290

Code Ph. Eur.	Description	Pk	Shelf life months	Cat. No.
1052001	Mercury acetate solution Reag. Ph. Eur.	100 ml	6	87864.180
1052101	Mercury bromide paper Reag. Ph. Eur.	1 Pce	12	85875.150
1052201	Mercury chloride solution Reag. Ph. Eur.	1 l	12	87865.290
1052600	Mercury sulphate solution (5%) Reag. Ph. Eur.	100 ml	12	87866.180
1052801	Mercury nitrate solution (70%) Reag. Ph. Eur.	100 ml	6	87867.180
1053203	Methanol reagent Reag. Ph. Eur.	100 ml	24	87868.180
1054801	Methyl orange solution Reag. Ph. Eur.	100 ml	12	87870.180
1055901	Methylene chloride in hydrochloric acid Reag. Ph. Eur.	100 ml	12	87871.180
1056700	Ammonium heptamolybdate Reag. Ph. Eur.	100 ml	12	87872.180
1056801	Eriochrome black T triturate Reag. Ph. Eur.	100 g	24	87873.180
1057601	Naphtolbenzeine solution 0,2% in acetic acid Reag. Ph. Eur.	100 ml	24	87874.180
1058301	Ninhydrin & tin chloride reagent Reag. Ph. Eur.	100 ml	3	87875.180
1058302	Ninhydrin reagent kit Reag. Ph. Eur.	100 ml	3	87876.180
1058303	Ninhydrin solution (0,2%) Reag. Ph. Eur.	100 ml	12	87713.180
1058305	Ninhydrin solution R2 (3%)Reag. Ph. Eur.	100 ml	12	87878.180
1058306	Ninhydrin solution R3 (0,4%) Reag. Ph. Eur.	100 ml	12	87879.180
1058402	Nitric acid diluted Reag. Ph. Eur.	100 ml	24	87880.180
1059100	Nitrochromic reagent Reag. Ph. Eur.	100 ml	24	87881.180
1060100	Vanadomolybdate reagent Reag. Ph. Eur.	200 ml	12	87882.220
1061401	Oxalic & sulphuric acid solution Reag. Ph. Eur.	1 l	12	87883.290
1061501	Palladium chloride solution Reag. Ph. Eur.	100 ml	24	87884.180
1062201	Pararosaniline solution decolourised Reag. Ph. Eur.	100 ml	6	87885.180
1062901	Perchloric acid solution Reag. Ph. Eur.	100 ml	24	87886.180
1063000	Ortho periodic acid 0,002 mol/l in acetic acid Reag. Ph. Eur.	100 ml	12	87887.180
1063603	Phenol red 0,002% & ammonium sulphate 0,005% Reag. Ph. Eur.	500 ml	24	87889.260
1063604	Phenol red 0,002% & ammonium sulphate 0,01% Reag. Ph. Eur.	500 ml	24	87890.260
1063704	Phenolphthalein paper Reag. Ph. Eur.	50 Tests	24	87891.150
1064501	Phenylhydrazine chlorohydrate solution Reag. Ph. Eur.	250 ml	6	87892.230
1065000	Phosphomolybdotungstic reagent Reag. Ph. Eur.	100 ml	12	87893.180
1065001	Phosphomolybdotungstic reagent diluted Reag. Ph. Eur.	100 ml	12	87894.180
1065101	Phosphoric acid diluted Reag. Ph. Eur.	100 ml	12	87895.180
1065200	Phosphotungstic solution Reag. Ph. Eur.	100 ml	12	87896.180
1065801	Picric acid solution 1% Reag. Ph. Eur.	100 ml	6	87897.180
1065802	Picric acid reagent R1 Reag. Ph. Eur.	100 ml	6	87715.180
1069101	Potassium chloride solution 0,1 mol/l Reag. Ph. Eur.	1 l	24	87898.290
1069201	Potassium chromate solution Reag. Ph. Eur.	1 l	24	87899.290
1069501	Potassium dichromate solution R (0,36 mol/l) Reag. Ph. Eur.	500 ml	12	87716.260
1069502	Potassium dichromate solution R1 (0,5%) Reag. Ph. Eur.	1 l	12	87900.290
1069601	Potassium dihydrogen phosphate 0,2 mol/l Reag. Ph. Eur.	1 l	12	87901.290
1069801	Potassium hexacyanoferrate (II) solution 5,3% Reag. Ph. Eur.	100 ml	12	87902.180
1070001	Potassium hydrogen phtalate 0,2 mol/l Reag. Ph. Eur.	1 l	6	87903.290
1070501	Potassium iodide & starch solution Reag. Ph. Eur.	135 ml	12	87908.200
1070502	Potassium iodide solution 1 mol/l Reag. Ph. Eur.	1 l	24	87909.290
1070503	Potassium iodide solution, iodinated Reag. Ph. Eur.	100 ml	12	87910.180
1070504	Potassium iodide saturated solution Reag. Ph. Eur.	100 ml	12	87911.180
1070600	Potassium heptaiodobismuthate solution 6,1% Reag. Ph. Eur.	100 ml	6	87912.180
1070601	Potassium heptaiodobismuthate solution 6,1% Reag. Ph. Eur.	600 ml	6	87913.270
1070602	Potassium heptaiodobismuthate solution 8% Reag. Ph. Eur.	100 ml	3	87914.180
1070603	Potassium heptaiodobismuthate solution 0,5% in aqueous L(+)-tartaric acid solution with potassium iodide Reag. Ph. Eur.	500 ml	3	87915.260
1070605	Potassium heptaiodobismuthate solution 0,5% in dil. acetic acid with barium chloride Reag. Ph. Eur.	100 ml	3	87916.180
1070801	Potassium ferriperiodate solution Reag. Ph. Eur.	50 ml	6	87917.130
1070901	Potassium permanganate 3% in o-phosphoric acid Reag. Ph. Eur.	100 ml	12	87918.180
1070902	Potassium permanganate solution Reag. Ph. Eur.	1 l	24	87919.290
1071200	Potassium plumbite solution Reag. Ph. Eur.	100 ml	6	87920.180

REAGENTS PH. EUR.

BY CODE PH. EUR.

Code Ph. Eur.	Description	Pk	Shelf life months	Cat. No.
1071301	Potassium pyroantimonate reagent Reag. Ph. Eur.	125 ml	12	87725.200
1071500	Potassium tetraiodomercurate solution Reag. Ph. Eur.	100 ml	12	87921.180
1071600B	Potassium iodo mercurate solution B Reag. Ph Eur	100 ml	24	87710.180
1071801	Potassium thiocyanate 1 mol/l Reag. Ph. Eur.	1 l	24	87922.290
1073801	Quinaldine red solution Reag. Ph. Eur.	100 ml	24	87923.180
1078301	Silver nitrate solution 0,25 mol/l Reag. Ph. Eur.	1 l	24	87924.290
1078302	Silver nitrate solution 0,1 mol/l Reag. Ph. Eur.	1 l	24	87925.290
1078304	Silver nitrate solution 0,5 mol/l in pyridine Reag. Ph. Eur.	100 ml	12	87926.180
1078305	Silver nitrate reagent Reag. Ph. Eur.	100 ml	24	87927.180
1079301	Sodium carbonate solution 1 mol/l Reag. Ph. Eur.	1 l	24	87928.290
1079302	Sodium carbonate solution 2% in sodium hydroxide 0,1 mol/l Reag. Ph. Eur.	1 l	24	87929.290
1079303	Sodium carbonate solution 4% in sodium hydroxide 0,2 mol/l Reag. Ph. Eur.	1 l	24	87930.290
1079502	Sodium chloride solution 20% Reag. Ph. Eur.	1 l	24	87931.290
1081301	Sodium hydrogen carbonate solution 0,5 mol/l Reag. Ph. Eur.	1 l	24	87932.290
1081401	Sodium hydroxide solution 20% Reag. Ph. Eur.	1 l	24	87933.290
1081402	Sodium hydroxide solution diluted Reag. Ph. Eur.	1 l	24	87934.290
1081403	Sodium hydroxide solution 0,001 mol/l in methanol Reag. Ph. Eur.	100 ml	24	87935.180
1081404	Sodium hydroxide solution Reag. Ph. Eur.	1 l	24	87936.290
1081405	Sodium hydroxide solution 0,005 mol/l in methanol R1 Reag. Ph. Eur.	100 ml	24	87937.180
1081406	Sodium hydroxide solution 50% Reag. Ph. Eur.	1 l	24	87938.290
1081600	Sodium hypochlorite solution 2,5% active chlorine Reag. Ph. Eur.	1 l	12	87939.290
1083901	Sodium sulphide solution Reag. Ph. Eur.	100 ml	6	87940.180
1085001	Tin chloride solution Reag. Ph. Eur.	100 ml	12	87941.180
1085101	Starch iodate paper Reag. Ph. Eur.	50 Tests	12	87942.150
1085103	Starch solution Reag. Ph. Eur.	100 ml	12	85964.180
1085106	Starch iodide paper Reag. Ph. Eur.	50 Tests	24	87943.150
1086201	Sulphanilic acid solution 0,02 mol/l in acetic ccid 6% Reag. Ph. Eur.	100 ml	12	87944.180
1086203	Sulphanilic acid solution 0,02 mol/l in acetic acid 25% Reag. Ph. Eur.	100 ml	12	87945.180
1086400	Sulphomolybdic reagent R2 Reag. Ph. Eur.	100 ml	12	87946.180
1086500	Sulphomolybdic reagent R3 Reag. Ph. Eur.	100 ml	12	87947.180
1086801	Sulphuric acid solution 2,5 mol/l in anhydrous ethanol Reag. Ph. Eur.	100 ml	12	87948.180
1086802	Sulphuric acid solution 0,25 mol/l in anhydrous ethanol Reag. Ph. Eur.	100 ml	12	87949.180
1086803	Sulphuric acid solution 20% (v/v) in ethanol 96% Reag. Ph. Eur.	100 ml	12	87950.180
1086804	Sulphuric acid solution 1 mol/l Reag. Ph. Eur.	1 l	24	85973.290
1086805	Sulphuric -formaldehyde reagent Reag. Ph. Eur.	100 ml	6	87951.180
1089602	Thiocetamide solution 4% Reag. Ph. Eur.	1 l	12	85975.290
1090601	Thymol blue solution Reag. Ph. Eur.	100 ml	24	87952.180
1090701	Thymolphthalein solution 0,1% in ethanol Reag. Ph. Eur.	100 ml	12	87953.180
1090901	Titan yellow paper Reag. Ph. Eur.	50 Tests	12	87954.150
1090902	Titan yellow solution 0,05% Reag. Ph. Eur.	100 ml	12	87955.180
1091201	Titanium (III) chloride solution 15% in hydrochloric acid 10% Reag. Ph. Eur.	100 ml	12	87708.180
1091202	Titanium trichloride sulphuric acid reagent Reag. Ph. Eur.	100 ml	6	87711.180
1092501	Trichloroacetic acid solution Reag. Ph. Eur.	100 ml	12	87956.180
1095500	Water Reag. Ph. Eur.	5 l	12	87957.360
1095501	Water ammonium-free Reag. Ph. Eur.	1 l	12	87958.290
1095502	Water carbon dioxide-free Reag. Ph. Eur.	1 l	12	87959.290
1095503	Water for chromatography Reag. Ph. Eur.	1 l	12	87960.290
1095506	Water nitrate-free Reag. Ph. Eur.	1 l	12	87961.290
1095507	Water particle-free Reag. Ph. Eur.	1 l	12	87962.290
1096301	Xylenol orange triturate 1% in potassium nitrate Reag. Ph. Eur.	50 g	12	87963.150
1096502	Zinc iodide & starch solution Reag. Ph. Eur.	100 ml	12	87964.180
1096601	Zinc chloride in formic acid solution Reag. Ph. Eur.	1 l	24	87965.290
1096602	Zinc iodine chloride Reag. Ph. Eur.	100 ml	12	87726.180
1097201	Zirconyl nitrate 0,1% solution in hydrochloric acid 22% Reag. Ph. Eur.	100 ml	24	87966.180
1102301	Zinc acetate solution 0,25 mol/l Reag. Ph. Eur.	1 l	12	87967.290

Code Ph. Eur.	Description	Pk	Shelf life months	Cat. No.
1114001	Lanthanum (III) chloride solution Reag. Ph. Eur.	1 l	24	87968.290
1122500	Fixing solution	500 ml	12	87969.260
1122600	Fixing solution	500 ml	6	87970.260
1123001	O-tolidine solution Reag. Ph. Eur.	500 ml	6	87971.260
1138700	Fixation solution Reag. Ph. Eur.	500 ml	6	87972.260
3008700	Hydroxide cupriethylene Reag. Ph. Eur.	1 l	6	87712.290
4000600	Buffer ph 3,5 reagent Reag. Ph. Eur.	1 l	24	85669.290
4007300	Ammonium chloride solution buffer Ph 10 Reag. Ph. Eur.	1 l	24	85739.290
5000300C	Ammonium R solution 250 ppm Reag. Ph. Eur.	100 ml		88084.180
5000802C	Calcium solution 1000 ppm Reag. Ph. Eur.	100 ml	12	88085.180
5001600C	Iron solution 200 ppm Reag. Ph. Eur.	100 ml	12	88086.180
5001700	Lead solution 1000 ppm Reag. Ph. Eur.	100 ml	12	88087.180
5002100C	Nitrate solution 1000 ppm Reag. Ph. Eur.	100 ml	12	88088.180
5002200C	Phosphate solution 500 ppm Reag. Ph. Eur.	100 ml	12	88089.180
5002801C	Sulphate R1 solution 1000 ppm Reag. Ph. Eur.	100 ml	12	88091.180
5002802C	Sulphate R solution 1000 ppm Reag. Ph. Eur.	100 ml	12	88090.180

Dyes and stains for microscopy

A complete range of reagents available in different pack sizes.

DYES & STAINS

Description	Pk	Cat. No.
Basic fuchsin for microscopical staining	25 g	3525.0025
Basic fuchsin, Gurr® for microscopical staining	100 g	340325K
Carbol Fuchsin (Ziehl-Neelsen) strong solution, Gurr microbiology stain	500 ml	350084R
Elastin stain acc. to Miller (form. RA Lamb), Gurr™ for microscopical staining	500 ml	351154S
Eosin Y (yellowish), Gurr™ for microscopical staining	25 g	341972Q
Eosin Y (yellowish), Gurr™ for microscopical staining	100 g	341973R
Eosin Y (yellowish), Gurr™ for microscopical staining	1 kg	341975T
Giemsa's stain improved solution R66, Gurr™ for microscopical staining	500 ml	350864X
Giemsa's stain improved solution R66, Gurr™ for microscopical staining	1 l	350865P
Giemsa's stain improved solution R66, Gurr™ for microscopical staining	25 l	35086HE
Giemsa's stain solution, Gurr™ for microscopical staining	500 ml	352603R
Gram's decolorizing solution	5 l	9761.5000
Gram's decolorizing solution	5 l	99502.5000
Haemalum (Mayer's) solution, Gurr™ for microscopical staining	500 ml	350604T
Harris´s Hematoxylin solution, Gurr™ for microscopy mercury free	1 l	351945S
Hema - rapid staining set, Gurr™ for hematology, for microscopy	1 KIT	351042L
Hematoxylin hydrate, Gurr® for microscopical staining	25 g	340374T

Description	Pk	Cat. No.
Leishman's eosin-methylene blue staining solution	500 ml	350224L
Lugol's iodine solution, Gurr™ for microscopy	250 ml	351903Y
Malachite green oxalate for microscopy (C.I. 42000)	100 g	3076.0100
May Grunwald's eosin methylene blue solution (form. RA Lamb), Gurr™ for microscopical staining	1 l	351355C
May Grunwald's eosin methylene blue solution in methanol, Gurr™ for microscopical staining	1 l	352622M
May Grunwald's eosin methylene blue solution, Gurr™ for microscopy	1 l	352065W
Methyl blue microbiology stain (C.I. 42780)	100 g	34015.182
Methylene blue for microscopy (C.I. 52015)	25 g	3470.0025
Methylene blue for microscopy (C.I. 52015)	100 g	3470.0100
Methylene blue, Gurr™ for microscopical staining	25 g	340484B
Neutral red, Gurr™ for microscopical staining	25 g	340564A
Neutral red, Gurr™ for microscopical staining	100 g	340565B
Nuclear Fast Red, Gurr™ for microscopical staining	25 g	342094W
Papanicolaou's Orange G solution (OG 6), Gurr™ for microscopical staining	1 l	350405X
Papanicolaou's solution EA 50 new formulation, Gurr™ for microscopical staining	1 l	351695T
Schiff's reagent (feulgen stain) (form. RA Lamb), Gurr™ for microscopical staining, for histology	500 ml	351204L

READY TO USE STAINING SOLUTIONS

Staining solutions used in histology and cytology for the staining and counterstaining in HE or PAP protocols.

Description	Pk	Cat. No.
Malachite green oxalate for microscopy	25 g	3076.0025
Bouin's solution	1 l	7000.1000
Eosin Y (yellowish) alcoholic solution, Q Path® for microscopy	5 l	00607121.
Mayer's haematoxylin solution, Q Path® for microscopy	5 l	00607126.
Harris's Haematoxylin (modified), Q Path® for microscopy	5 l	00607131.
Papanicolaou's Orange G solution (OG 6), Q Path® for microscopy	5 l	00607136.
Papanicolaou's solution EA 50, Q Path® for microscopy	5 l	00607141.
Eosin Y (yellowish) in aqueous solution, Q Path® for microscopy	450 ml	10047001.
Eosin Y (yellowish) alcoholic solution, Q Path® for microscopy	450 ml	10047003.
Mayer's haematoxylin solution, Q Path® for microscopy	450 ml	10047005.
Harris's haematoxylin (modified), Q Path® for microscopy	450 ml	10047007.
Papanicolaou's Orange G solution (OG 6), Q Path® for microscopy	450 ml	10047010.
Papanicolaou's solution EA 50, Q Path® for microscopy	450 ml	10047011.
May-Grunwald eosin methylene blue, Q Path®	450 ml	10047018.

Description	Pk	Cat. No.
Orthoperiodic acid solution, Q Path® for microscopy	450 ml	10047024.
Saffron alcoholic solution, Q Path® for microscopy	450 ml	10047028.
Eosin Y (yellowish) in aqueous solution, Q Path® for microscopy	2,5 l	10047101.
Eosin Y (yellowish) alcoholic solution, Q Path® for microscopy	2,5 l	10047103.
Mayer's haematoxylin solution, Q Path® for microscopy	2,5 l	10047105.
Harris's haematoxylin (modified), Q Path® for microscopy	2,5 l	10047107.
Papanicolaou's Orange G solution (OG 6), Q Path® for microscopy	2,5 l	10047110.
Papanicolaou's solution EA 50, Q Path® for microscopy	2,5 l	10047111.
May-Grunwald eosin methylene blue, Q Path®	2,5 l	10047118.
Saffron, Q Path®	10 g	11507736.
Saffron, Q Path®	10 g	11507737.
Phloxin B 0,1%, Q Path® for microscopy	1 l	10047229.
Shorr staining solution, Q Path® for microscopy	450 ml	10047013.
Shorr staining solution, Q Path® for microscopy	2,5 l	10047113.

Indicators or reagents for special applications

Other indicators or reagents can be used.

You will find some of them below.

INDICATORS & REAGENTS FOR SPECIAL APPLICATIONS

Description	Pk	Cat. No.
4-Dimethylaminobenzaldehyde 0,5% spray reagent in propan-2-ol for TLC	240 ml	**30956.608**
Aniline phthalate 2% spray reagent in butan-1-ol for TLC	250 ml	**30955.605**
Bromocresol green 0,1% spray reagent in propan-2-ol for TLC	250 ml	**30957.602**
Rhodamine B 0,1% spray reagent in propan-2-ol for TLC	250 ml	**30959.608**
Ninhydrin 0,5% spray reagent in butan-1-ol for TLC	240 ml	**30960.226**
Iotect™ iodine indicator analytical reagent	100 g	**28610.187**
Iotect™ iodine indicator analytical reagent	250 g	**28610.234**
Iotect™ iodine indicator analytical reagent	5 kg	**28610.360**
Iotect™ iodine indicator analytical reagent	1 kg	**28610.291**
Xylenol orange, tetrasodium salt ACS Reag. Ph. Eur.	5 g	**86150.050**
Xylenol orange, tetrasodium salt TECHNICAL	5 g	**26086.103**

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