

BIOLOGICAL STAINS

DYES & INDICATORS

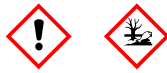


BIOCHEM CHEMOPHARMA
Laboratory Reagents & Fine Chemicals

BRILLIANT GREEN INDICATOR

Product code: 31634
 C.A.S: 633-03-4
 EINECS: 211-190-1

Laboratory Reagent



C27H34N2O4S MW=482.65

25 gr + 100 gr

H302-H410-H319

P264-P273-P280-P305+P351+P338-P330-P337+P313-P391-P501

Dye content

Min 95

Absorption max. (in ethanol 50%)

628 - 632 nm

BROMOCRESOL GREEN INDICATOR

Product code: 40207
 C.A.S: 76-60-8
 EINECS: 200-972-8

Analytical Reagent

C21H14Br4O5S MW=698.04

5 gr + 25 gr

Dye content (by spectro)

Min 95 %

pH

3.8-5.4 Yellow to blue

Loss on drying (at 110°C)

Max 3 %

Appearance of solution

Conforms

Transition range (according to ACS)

Passes test

Sensitivity test

Passes test

Identity (IR)

Passes test

BROMOCRESOL PURPLE

Product code: 40216
 C.A.S: 115-40-2
 EINECS: 204-087-8

Analytical Reagent

C21H16Br2O5S MW=540.24

5 gr + 25 gr

H319-H315-H335

P264-P271-P280-P302+P352-P304+P340-P305+P351+P338-P403+P233-P501

Appearance of solution

Conforms

Loss on drying (at 110°C)

Max 1 %

pH transition (5.2-6.8)

Yellow to purple

Sensitivity test

Passes test

Appearance

Grey to light purple or pink to yellow-tan powder

BROMOPHENOL BLUE

Product code: 40202
 C.A.S: 115-39-9
 EINECS: 204-086-2

Analytical Reagent

C19H10Br4O5S MW=669.98

5 gr + 25 gr

H312+H332-H319

P261-P264-P271-P280-P302+P352-P304+P340-P305+P351+P338-P501

Appearance of solution

Passes test

Transition range pH

3.0-4.6 Yellow to blue

Transition range acc. ACS

Passes test

Appearance

Pink-orange to red purple powder

BROMOTHYMOL BLUE

Product code: 40212
 C.A.S: 76-59-5
 EINECS: 200-971-2

Analytical Reagent

C27H28Br2O5S MW=624.40

5 gr + 25 gr

pH transition (6.0-7.6)

Yellow to blue

Loss on drying (at 110°C)

Max 3.0 %

Appearance of solution

Passes test

Transition range (according to ACS)

Passes test

Sensitivity

Passes test

Appearance

Pink to purple color powder

CANGO RED INDICATOR

Product code: 40212
 C.A.S: 76-59-5
 EINECS: 200-971-2

For Microscopy

C32H22N6Na2O6S2 MW=696.67

5 gr + 25 gr

H350-H361d

P201-P202-P280-P308+P313-P405-P501

Appearance of solution (1.0 g/l;water)

almost clear

Transition range at pH

3.0 to pH 5.2 Violet to orange red

Loss on drying at 110°C

Max 5.0 %

Sensitivity test

Passes test

Appearance

Brownish red powder

CRYSTAL VIOLET

Product code: 40322
 C.A.S: 548-62-9
 EINECS: 208-953-6

For Microscopy

C25H30ClN3 MW=407.99

25 gr + 100 gr

H302-H410-H351-H318

P201-P264-P273-P280-P305+P351+P338-P308+P313-P310-P501

Absorption maxima

589 - 594 nm

Dye content

Min 88 %

Specific absorptivity

2050 - 2450

Loss on drying

Max 10 %

INDIGO CARMINE

Product code: 40309
 C.A.S: 860-22-0
 EINECS: 212-728-8

For Microscopy



C16H8N2Na2O8S2 MW=466.36

25 gr

H317

P261-P272-P280-P302+P352-P321-P333+P313-P362+P364-P501

Absorption maxima in water
 Specific absorptivity A 1%/1cm (I_{max},0.001%,water)
 Loss on drying (at 110°C)
 Suitability (for microscopy)
 Appearance

608 - 612 nm
 380 - 475
 Max 10 %
 Passes test
 Dark blue-violet powder having a metallic luster of copper

LIGHT GREEN

Product code: 50819
 C.A.S: 5141-20-8
 EINECS: 225-906-5

For Microscopy

C37H34N2Na2O9S3 MW=792.86

25 gr + 1 kg

Dye content
 Solubility (Turbidity)
 Absorption maxima in water
 Loss on drying (at 110°C)

Min 65.0 %
 1 mg/mL, H2O Clear
 629 - 634 nm
 Max 12.0 %

MALACHITE GREEN

Product code: 41307
 C.A.S: 2437-29-8
 EINECS: 219-441-7

For Microscopy



C52H54N4O12 MW=927.02

25 gr + 100 gr

H302-H410-H318-H361d

P201-P264-P273-P280-P305+P351+P338-P308+P313-P310-P501

Absorption maxima
 Absorptivity (A 1%/1cm; at max)
 Ratio max.P+/-15 nm
 Loss on drying (at 110°C)
 Appearance

616 - 620 nm
 Min 1450
 1.00 - 1.15
 Max 7 %
 Green crystalline powder

METHYL BLUE

Product code: 41302
 C.A.S: 28983-56-4
 EINECS: 249-352-9

For Microscopy

C37H27N3O9S3Na2 MW=799.81

25 gr

Absorption maxima (0.005M HCl)
 Specific absorptivity in 0.005M HCl
 Loss on drying (at 110°C)
 Suitability (for microscopy)
 Appearance

595 - 610 nm
 675 - 1125
 Max. 7.0 %
 Passes test
 blue to dark brown powder or crystal

METHYL GREEN

Product code: 40100
 C.A.S: 7114-03-6
 EINECS: 230-415-4

For Microscopy



C27H35Cl2N3.ZnCl2 MW=608.78

5 + 10 + 25 + 100 gr

H315-H319-H335

P264-P271-P280-P302+P352-P304+P340-P305+P351+P338-P337+P313-P403+P233-P501

Dye content
 Absorption Maxima (In water)
 Zinc (Zn)

Min 65 %
 630 - 635 nm
 7 - 11

METHYL ORANGE

Product code: 41317
 C.A.S: 547-58-0
 EINECS: 208-925-3

Analytical Reagent



C14H14N3NaO3S MW=327.33

25 gr + 100 gr

H301

P264-P270-P301+P310-P321-P330-P405-P501

Appearance
 Identity (IR)
 Solubility (0.1 % in water)
 Visual transition range

Yellowish-orange colored powder
 Conforms to structure
 Clear (passes ACS test)
 from pH 3.2 (pink or red) to pH 4.4 (yellow-orange)

METHYL RED

Product code: 41318
 C.A.S: 493-52-7
 EINECS: 207-776-1

Analytical Reagent

C15H15N3O2 MW=269.31

25 gr + 100 gr

pH transition range
 Absorption maxima (pH4.5)
 Absorption maxima (pH6.2)
 Loss on drying (at 110°C)
 Residue on ignition

(4.4-6.2) Red-yellow orange
 buffer 523-526nm
 buffer 427-437nm
 Max 5.0%
 (as Max 2.0% SO4)

METHYL VIOLET

Product code: 21315
 C.A.S: 8004-87-3
 EINECS:

For Microscopy



C24H28N3Cl MW=393.94

25 gr

H302-H319

P264-P270-P280-P301+P312-P305+P351+P338-P330-P337+P313+P501

Description
 Absorption Maxima in ethanol
 Absorptivity (1%, 1cm, λ_{max})
 Ratio λ_{max} P±15 nm
 Loss on drying at 110°C

Dark green crystalline powder
 583 - 587 nm 583.0 nm
 Min. 1600
 1.060 - 1.190
 Max. 10.0%

METHYL THYMOL BLUE

Analytical Reagent

MW=

5 gr

Product code: 21313

C.A.S:

EINECS:

Appearance Dark brown coloured powder
 pH transition (4.0-10.0) Red to yellow to blue

METHYLENE BLUE

Analytical Reagent

C16H18ClN3S.xH2O MW=319.859

25 gr + 100 gr

Product code: 41312

C.A.S: 61-73-4

EINECS: 200-515-2



H302
 P264-P270-P301- P312-P330-P501A

Dye content About 82 %
 Absorption maxima in 50 % ethanol 660 - 665 nm
 Specific absorptivity A1 %/1 cm (max; 0.003 g/l; ethanol) 2250 - 2750
 loss on drying (at 105°C) 8.0 - 22.0 %

ORANGE G INDICATOR

For Microscopy

C16H10N2Na2O7S2 MW= 452.37

25 gr

Product code: 41507

C.A.S: 1936-15-8

EINECS: 217-705-6



H373
 P260-P314-P501

Assay Min. 80.0 %
 Absorption Maxima 476 - 481 nm
 Absorptivity Min. 380
 Loss on drying (110°C) Max. 15.0 %
 Appearance Orange powder

ORCEIN

For Microscopy

5 gr + 25 gr

Product code: 52028

C.A.S: 1400-62-0

EINECS: 215-750-6



H302
 P264-P270-P301+P312-P330-P501

Absorption in NaOH 0.01 Mol/L 575 - 582 nm
 Specific absorptivity Min 500
 Loss on drying Max 7 %

PHENOL RED

Analytical Reagent

C19H14O5S MW=354.38

5 gr + 25 gr

Product code: 41606

C.A.S: 143-74-8

EINECS: 205-609-7



H315-H319-H335
 P261-P264-P302+P352-P304+P340-P363-P403+P233-P501

Visual transition range pH 6.8 (yellow) - 8.2 (Red)
 Absorption maxima at pH 6.5 (I1) 430-435nm
 Absorption maxima at pH 8.2 (I2) 557-560nm
 Loss on drying (at 110°C) Max 5.0 %
 Clarity of solution Passes ACS test
 Appearance Reddish powder

TOLUIDINE BLUE

For Microscopy

C15H16ClN3S MW=305.83

5 gr + 25 gr

Product code: 30335

C.A.S: 92-31-9

EINECS: 202-146-2

Dye content (By spectrophotometry) Min 80%
 Absorption maximum in water 628 - 633 nm
 Solubility (0.1%; water) Clear solution
 Absorptivity (0.005g/l in H2O) Min 1200
 Loss on drying (at 110°C) Max 8 %

SUDAN BLACK B

For Microscopy

C29H24N6 MW=466.36

10 gr

Product code: 41902

C.A.S: 4197-25-5

EINECS: 224-087-1

Description Black powder
 Dye content Min. 60.0%
 Absorption maxima (in 95% ethanol) 596 - 605nm
 Loss on drying (50°C/0.05mm Hg) Max. 5.0%
 Suitability for microscopy Passes test

SUDAN III

For Microscopy

C₂₂H₁₆N₄O MW=352.40**10 gr +25 gr**

Product code: 51923

C.A.S: 85-86-9

EINECS: 201-638-4

Absorption maximum nm 508 - 512

nm 508 - 512

Dye content % Min 85

Min 85 %

Loss on drying (at 110°C) % Max 2

Max 2 %

SUDAN IV

For Microscopy

C₂₄H₂₀N₄O

MW=380.45

10 gr

Product code: 41312

C.A.S: 85-83-6

EINECS: 201-635-8

Appearance

Dark red powder

Absorption maxima

Min 600

Absorptivity (A 1%/1cm; at max)

Max 3 %

Loss on drying (at 135°C)

519 - 523 nm