



TLC micro-sets introductory kits for science education

Beginner's set

- Features separations with simple developing solvents; samples are colored thus eliminating the need for visualization.
- All equipment needed is contained in the set.

Advanced sets F1, F2 and F3

- Require some experience and skill from the user: some of the samples have to be pretreated before separation, and for identification of substances spray reagents have to be used

TLC micro-set A for beginners

This kit contains all chemicals and accessories for the following separations:

- Separation of the fat-soluble (lipophilic)
Test dye mixture 1: butter yellow, indophenol, sudan blue II, sudan red G
- Separation of a mixture of anthraquinone dyes
Test dye mixture 2: blue 1, blue 3, green, green blue, red, violet 1, violet 2
- Separation of a mixture of food dyes
Test dye mixture 3: brilliant black BN (E151), fast red E, erythrosine (E127), yellow orange S (sunset yellow CFC, E110), naphthol red S, ponceau 4 R (E124), tartrazine (E102)
- Separation of dyes from felt tip pens

Contents of TLC micro-set A for beginners

- 1 manual
- 3 developing chambers
- 50 glass capillaries 1 μ L
- 1 spotting guide
- 2 felt tip pens
- 1 measuring cylinder 10 mL
- 50 polyester sheets 4 x 8 cm each of POLYGRAM®: SIL G/UV₂₅₄, Alox N/UV₂₅₄ and CEL 300
- 8 mL each of test dye mixture 1 (4 lipophilic dyes), test dyes sudan red G, and sudan blue II
- 8 mL each of test dye mixture 2 (7 anthraquinone dyes), test dyes blue 1 and violet 2
- 8 mL each of test dye mixture 3 (7 food dyes), test dyes yellow orange S, and brilliant black BN
- 100 mL each of toluene, toluene – cyclohexane (2:1, v/v), ethanol, 2.5 % sodium citrate solution, 25 % ammonia solution – 2-propanol (5:3, v/v)

Ordering information

Designation	Pack of	REF
TLC micro-set A for beginners*	1 kit	814000
Replacement parts for TLC micro-set A		
Test dye mixture 1*, solution of 4 lipophilic dyes in toluene (components see above)	8 mL	814001
Test dye mixture 2*, solution of 7 anthraquinone dyes in toluene – cyclohexane (2:1, v/v) (components see above)	8 mL	814002
Test dye mixture 3, aqueous solution of 7 food dyes (components see above)	8 mL	814003
Collection of 4 individual components of test dye mixture 1*	4 x 8 mL	814011
Collection of 7 individual components of test dye mixture 2*	7 x 8 mL	814012
Collection of 7 individual components of test dye mixture 3	7 x 8 mL	814013
Sodium citrate, 2.5 g in 100 mL bottle to fill up with distilled water	2.5 g	814029

* These products contain harmful substances which must be specially labeled as hazardous. For detailed information please see SDS.

Information about the advanced sets F1, F2 and F3 can be found on page 270 and page 271.

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