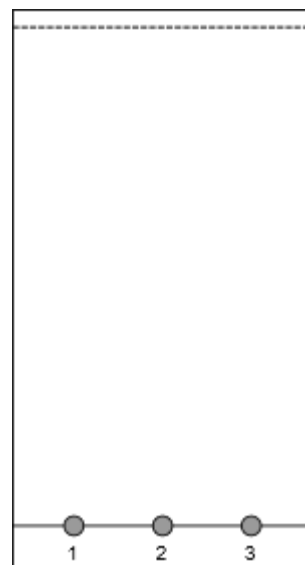


TLC analysis

- ◆ Fill a capillary or a cannula with the solution you want to analyze
- ◆ Place the sample by tapping several times on the same spot on a TLC plate; the figure below shows an exemplary positioning of three samples
- ◆ After placing the samples put the TLC plate in a beaker filled with the chosen eluent; depending on the sample the percentage of polar and nonpolar solvent can vary. We used 50 % ethyl acetate in petrol ether
- ◆ Let the eluent flow to a few millimeters before the upper border
- ◆ Irradiate the TLC plate with UV light and mark UV reactive spots on the plate
- ◆ Stain the TLC plate in a ninhydrin solution in ethanol
- ◆ Heat the stained TLC plate with a heat air gun so that the ninhydrin gets burned



As guidance for analysis:

- ◆ Violet spots indicate primary amino acids and
- ◆ Yellow spots indicate secondary amino acids

Note: The color can vary, depending on the molecular composition of the amino group containing substance and the impurities