

Separation of amino acid by TLC

Experiment No. 16 Separation of amino acid by TLC:

Apparatus:

Beakers, Plates,
Pipette, stirrer, sucker.

Chemicals:

amino acids
silica gel
plaster of paris

Mobile phase:

n-butanol : acetic acid : H₂O
4 : 1 : 1

Theory

Slurry coated plates
are used to separate
amino acids like

Experiment NO. 14

Separation of amino acid

by TLC:

Apparatus:

beaker, plates,

stirrer, thread, pipette.

Chemicals:

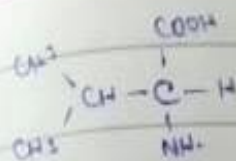
Ammonia acid, silica gel,

Plaster of Paris

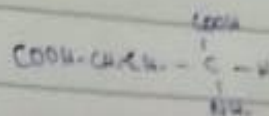
Mobile phase:

n-butanol : acetic acid : H₂O

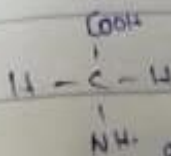
4 : 1 : 1



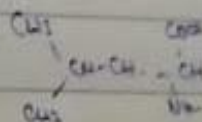
valine



glutamic acid



glycine



leucine

procedure:

First of all prepared plate with slurry and spots were placed on it. Then hanged it in mobile phase and prepared plates were marked and R_f value calculated.

Result:

mixture consist of both acid with R_f value in between them.

Observation

Amino acid	Re. value
Isole	0.1
Glutamic acid	0.3
mixture	0.2

