**Fragment solubility test procedure.**

**Step 1.**

**A. 200mM solution in Sigma-Aldrich DMSO for HPLC (WH2O-0.013%, by Fischer)**

1. Add 100µl of DMSO to 20mM of the compound.
2. Dissolve in a shaker (T-25 0С, v-170 rpm, t-16 hours).
3. Visually check the compounds which have not been dissolved (residue or haziness is observed), record the results in the appropriate table.
4. Remove undissolved compounds.

**Step 2.**

**B. 5mM solution in phosphate buffer\* (2.5% DMSO)**

1. Add 975µl of phosphate buffer\* to 25µl of the Solution A.
2. Dissolve in a shaker (T-25 0С, v-200 rpm, t-120 minutes).
3. Visually check the compounds which have not been dissolved (residue or haziness is observed), record the results in the appropriate table.

**Step 3.**

**C. 1mM solution in phosphate buffer\* (0.5% DMSO)**

1. Add 995µl of phosphate buffer\* to 5µl of the Solution A.

2. Dissolve in a shaker (T-25 0С, v-200 rpm, t-120 minutes).

3. Visually check the compounds which have not been dissolved (residue or haziness is observed), record the results in the appropriate table.

**\*- Preparation of the phosphate buffer рН – 7.5**

Dissolve 2.4g of КН2РО4 in 900ml of HPLC grade water.

Titrate to pH 7.42-7.45 with 5M NaOH\* solution (1.0ml pipette, magnetic stirrer, pH-meter).

Make up the flask volume to 1000ml.

The solution pH value should be 7.5

**\*- Preparation of 5M NaOH solution.**

Dissolve 20g of NaOH in 70ml of water purified in 100ml capacity measuring flask.

Make up volume to 100ml with water.