

Student experiment
(5th - 10th grade)

Berlin blue

🕒 **Time:**
max.15 - 20 min.

Safety:

safety glasses



Instruments:

- petri dish
- spatula (or properly trimmed drinking straw)

Chemicals:

- distilled water
- potassium hexacyanoferrate (H: 412; P: 273)
- iron(III) chloride (H: 302-315-318-290; P: 280-302+352-305+351+338-313)

Experiment:

- Fill the petri dish half full of water.
- Carefully place a little potassium hexacyanoferrate and a little iron(III) chloride on opposite sides of the petri dish.

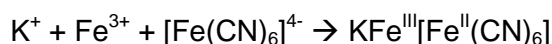


Observations:

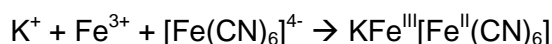
In a short time, a blue coloration appears in the middle of the petri dish.

Results:

Potassium hexacyanoferrate can be used to indicate the presence of iron (III) salts, because Berlin blue always results from their reaction.



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Disposal:

The liquid in the petri dish needs to be disposed of in the heavy metal waste container.