



Colour measurement of tablets in pharmaceutical production

In pharmaceutical tablet production different ingredients are used. Changing the concentration of these ingredients affects the colour of the tablet. The colour gradient varies from white and beige to yellow.

The colorCONTROL ACS7000 online colour measurement system with a 30° sensor head accurately measures the slightest colour difference, particularly those finely-graded colour shades between white and beige. This colour information provides a statement about the quality of the ingredient composition in the tablet produced.

Advantages

Colour measurement of the tablet shows whether the active ingredients have been used in the correct quantity and concentration.

Requirements for the measurement system

- Measurement distance: 50mm
- Precision: $\Delta E = 0.08$
- Resolution: 5 nm
- Bandwidth: 390 – 780nm
- Measurement rate max.: 2kHz

Ambient conditions

- Operating temperature 0...45°C
- Protection class controller IP40
- Protection class sensor IP64

System design

- colorCONTROL ACS7000
- 30° reflection sensor head FCS-TACS1-30/0-50-1200

