

## **Instruction for use – LYPHAN strips**

Hold the indicator strip at the top end and immerse it for 1 to 2 seconds deep enough so that **all colour strips** are wetted.

The upper part of the paper strip is separated by a hydrophobic zone so that clean and safe working is possible.

**Then compare the indicator coloration with the colour zones – preferably looking through the fluid – and assign it to a certain colour field.  
Read off the associated pH value on the box.**

Please observe the following:

- The immersion time of the strip depends upon the temperature and consistency of the solution. It is approx. 1 second at room temperature for purely aqueous solutions with low salt content and can take up to 5 seconds with increased salt content.  
The best measure of the required time is the colour equilibrium, (.e. the indicator no longer changes its colour when in equilibrium).  
This equilibrium should be obtained during the immersion time.

- The size of the existing buffering is essential for the pH measurement with indicator papers.  
If you want to use the above named papers for distinctly weakly buffered solutions, then you must significantly increase the immersion time to produce the colour equilibrium.  
However, the “conventional” strips do not tolerate this, because then the colour indicator bleeds to much (is washed out).

To avoid this, you can fasten the strip on the inner wall of a test tube, then fill the test tube up to the top edge of the indicator paper strip with test fluid and after approx. 1 minute compare the colour of the indicator with the colour scale on the strip through the test tube wall and then assign it to the corresponding pH value on the box. The strip remains in the test tube for the entire time.

- We offer a special strip for weakly buffered solutions in the measuring range of pH 3,0 to 5,1, this can be immersed in the solution for any length of time, even several minutes.  
Once the colour of the indicator no longer changes, the indicator coloration is assigned to the corresponding comparison colour and the pH value is read off on the box.