

## FAQs – Frequently asked questions - SmartBuffers

### 1. How do I dissolve Medicago powder/ tablet buffers?

Deposit your buffer tablet or powder in the indicated amount of deionized water in a laboratory flask. Stir on a magnet stirrer for a few minutes, until full dissolution. Tips: It is preferred to use a smaller amount of water to first dissolve the tablet/powder and then adjust the water up to the indicated volume.

### 2. I'm having problems dissolving my buffer tablet / buffer powder. What would you recommend?

Always make sure that you use a magnet stirrer when dissolving the tablets or powders. Buffers with high molarities are usually more difficult to dissolve and may need a few minutes extra to be completely dissolved.

### 3. What are the storage conditions and stabilities of Medicago SmartBuffers?

The storage conditions of Medicago buffers are simple. Keep them at room temperature in a dry place. Shelf life is then at least three years.

### 4. What do I do if I have a special request for a buffer that Medicago doesn't already have in the assortment?

At Medicago we take pride in the development and manufacture of buffers and reagents at request, with customers' specifications. We are continuously taking in orders for custom designed buffers. All you need to do is to fill in the webform, which is available under [www.medicago.se/custom-buffer-request](http://www.medicago.se/custom-buffer-request), or to send us an e-mail with your request and we will get back to you.

### **5. How are Medicago SmartBuffers supplied?**

Our dry buffers are supplied as tablets in either blister packs containing from 10 to 12 tablets, plastic bottles containing from 50 to 100 tablets per bottle or as powders in aluminium foil pouches.

### **6. How are Medicago SmartBuffers shipped?**

All buffers are shipped at room temperature.

### **7. Can I trust the indicated pH for the buffer?**

Yes, Medicago's buffers are equilibrated according to specifications, most buffers with a pH +/- 0.05 units at a temperature of 25°C.

### **8. My buffer seems to have the wrong pH, what can it be due to?**

The pH is strongly dependent on the temperature. Medicago's buffers are while manufactured equilibrated at room temperature, from 20°C to 25°C. If the temperature for some reason is lower or higher in your laboratory, this can have an effect on the pH of the buffer.

### **9. Precipitation has been formed in my dissolved buffer, what would you suggest?**

The precipitation can be due to poor stirring when first dissolved the tablet/powder. First: Simply try to stir the buffer once again on a magnet stirrer until full dissolution. If precipitation maintains, it is probably due to high molarity of the buffer. Just be sure you stir the stock solution before suspending to working concentrations. In working concentrations, precipitation will not occur.