

# Certificate of Analysis



**Product name:** FeSSIF buffer concentrate  
**Product description:** Clear colorless liquid  
**Batch number:** FESBUF-0820-A  
**Test report code:** 37341  
**Long-term storage:** Stored at room temperature  
**Manufacturing date:** August 2020  
**Expiry date:** August 2021  
**Expiry date once opened:** Use within 3 months

At 14.3x dilution in purified water.

| Test        | Method            | Target                 |      | Result      | Unit        |
|-------------|-------------------|------------------------|------|-------------|-------------|
|             |                   | Min                    | Max  |             |             |
| Appearance  | Visual inspection | Clear colorless liquid |      | Passes test | -           |
| Sodium      | ICP-MS            | 290                    | 350  | 310         | mmol/L      |
| Chloride    | HPLC              | 180                    | 230  | 200         | mmol/L      |
| Acetic acid | HPLC              | 120                    | 160  | 140         | mmol/L      |
| Osmolarity  | Calculated        | 600                    | 720  | 652         | mOsm/L      |
| pH (@ 25°C) | USP <791>         | 4.95                   | 5.05 | 5.02        | pH (@ 25°C) |

**Evaluation:** Complies with specifications

**Release date:** 2 September 2020

(Vasco Santos)

(Dr. Mathew Leigh)