

TABLE 3. *Heart*

| Tissue | Method | Temperature, °C | pH _o | pH _i | Comments | Ref. |
|---------------------------|---------------------|-----------------|-----------------|--------------------|--|----------|
| Rat ventricle (v) | CO ₂ | | 7.34 | 7.13 ± 0.03 (24) | Cl ⁻ for ECS | 28 |
| | DMO | | 7.42 | 6.88 ± 0.02 (10) | Cl ⁻ for ECS | 246 |
| Rat heart (v) | DMO | 38 | 7.36 | 6.95 | Inulin for ECS | 381 |
| | DMO | | 7.41 | 6.91 ± 0.01 (7) | Inulin for ECS | 92 |
| Rat heart (p) | DMO | 30 | 7.39 | 7.06 ± 0.02 (10) | Inulin for ECS | 360 |
| | DMO | 37 | 7.25 | 7.02 ± 0.03 (6-12) | Sorbitol for ECS; working heart | 310 |
| | DMO | 37 | 7.33 | 7.05 ± 0.02 (4-10) | Sorbitol for ECS; working heart | 423 |
| | ³¹ P NMR | 30 | | 7.4 | | 215 |
| Rat ventricle (i) | el(T) | 35 | 7.40 | 7.14 ± 0.03 (9) | V _m = -76.7 ± 1.6; in 100% O ₂ (10 mM HEPES, same pH _o), pH _i = 7.20 ± 0.03 (7); same results in ferret ventricle | 122 |
| Dog ventricle (v) | DMO | | 7.36 | 6.94 ± 0.07 (20) | ⁵¹ Cr-EDTA for ECS; pH _i derived from mean transit times; arterial pH = 7.39 | 120 |
| Rabbit left ventricle (v) | DMO | 36.5-39 | 7.44 | 6.80 ± 0.02 (30) | ⁵¹ Cr-EDTA for ECS; same pH _i for right ventricle and atria | 341 |
| Rabbit septum (p) | DMO | 26 | 7.38 | 7.28 ± 0.02 (5) | ⁵¹ Cr-EDTA for ECS; pH _i from washout of DMO was 7.23 ± 0.05 (11) | 340 |
| Rabbit heart (p) | DMO | 37 | 7.28 | 7.18 | Cl ⁻ for ECS | 149 |
| | ³¹ P NMR | 37 | | 7.18 ± 0.07 (?) | Perfusate was phosphate-free | 214 |
| Turtle ventricle (v) | DMO | 20 | 7.68 | 7.21 (13) | Inulin for ECS | 272 |
| Turtle heart (p) | DMO | 23-25 | 7.60 | 7.67 | Cl ⁻ for ECS | 457 |
| Sheep Purkinje (i) | el(T) | 35 | 7.40 | 7.02 ± 0.04 (14) | V _m = -78.1 ± 2.5. In 100% O ₂ (10 mM HEPES or Tris-maleate, same pH _o), pH _i = 7.20 ± 0.05 (4) | 123 |
| | el(T) | 36.5 | 7.40 | 7.09 ± 0.02 (6) | In absence of Cl ⁻ , pH _i = 7.40 ± 0.02 (3) | 448, 449 |

Perfusates and incubation fluids buffered with HCO₃⁻-5% CO₂, except for turtle heart, which was perfused with mixture of acetate, borate, and Tris. Numbers in parentheses are number of studies. ECS, extracellular space; (v), in vivo; (p), perfused heart; (i), isolated muscle preparation; el(T), Thomas-style glass electrode.