Bootstrap estimation of overall median and 90%ile

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Bootstrap settings

Number of samples and one-tailed probability

```
nsamp <- 10000
p <- 0.9
```

Sampling

```
r1md <- r3md <- vector()
r1v <- acid.pars$man.ph.r1
r3v <- acid.pars$man.ph.r3

for (i in 1:nsamp) {
  s1 <- sample(r1v, replace = TRUE)
  s3 <- sample(r3v, replace = TRUE)

  r1md <- c(r1md, median(s1))
  r3md <- c(r3md, median(s3))
}
```

Check

```
median(r1v)
```

```
## [1] 0.6648668
```

```
median(r3v)
```

```
## [1] 0.23819
```

```
median(r1md)
```

```
## [1] 0.6648668
```

```
median(r3md)
```

```
## [1] 0.23819
```

```
quantile(r1md, 1:9/10)
```

```
##        10%        20%        30%        40%        50%        60%        70%        80%        90%
## 0.6084847  0.6089017  0.6626218  0.6626218  0.6648668  0.6651733  0.6651733  0.6784625  0.7039975
```

```
quantile(r3md, 1:9/10)
```

```
##        10%       20%       30%       40%       50%       60%       70%       80%       90%
## 0.1661837 0.1685484 0.1949507 0.1949507 0.2381900 0.2393360 0.2393360 0.2793163 0.3097139
```