**S3 Table.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Traits | Adjustment for environmental covariates | Full model | Nested models | | | | | |
| ρgMF = 1 | | | σgM = σgF | | |
| -2 log-Likelihood | -2 log-Likelihood | χ2 | P-value | -2 log-Likelihood | χ2 | P-value |
| TSH | Noa | 1752.57 | 1752.65 | 0.07 | 0.393 | 1754.10 | 1.52 | 0.217 |
|  | Yesb | 1589.87 | 1589.92 | 0.04 | 0.417 | 1591.36 | 1.49 | 0.222 |
| Ft4 | Noa | 1528.55 | 1528.55 | 0.00 | 0.500 | 1528.82 | 0.27 | 0.605 |
|  | Yesb | 1346.38 | 1346.38 | 0.00 | 0.500 | 1346.43 | 0.05 | 0.823 |