**Supplemental Table 3:** Study quality checklist for the included studies. Studies were scored with maximum one point per item when the information was provided and with zero points if the information was missing.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Refs. | 1. Peer reviewed publication | 2. Animal model (specie, strain) | 3. Sex of the experimental animals | 4. Housing and husbandry conditions (animals per cage, temperature and light cycle), any actions to improve animal welfare of the experimental animals | 5. Description of the procedures, including when it was done, any preparation of the animals before blood sampling (prandial status, use of anaesthesia) | 6. Description of analysis or name and/or brand of kits  | 7. Details of the statistical methods used for each analysis | 8. Summary/descriptive statistics for each experimental group, with a measure of variability where applicable | 9. Compliance with animal welfare regulations | 10. Statement of potential conflict of interests | Total score (of 10) |
| **(**[**33**](#_ENREF_33)**)** | 1 | 1 | 1 | 0.5\*† | 0.5|| | 1 | 1 | 1 | 0 | 0 | 7.00 |
| **(**[**40**](#_ENREF_40)**)** | 1 | 1 | 1 | 0.5†‡ | 1 | 1 | 1 | 1 | 0 | 0 | 7.50 |
| **(**[**31**](#_ENREF_31)**)** | 1 | 1 | 1 | 0\*†‡§ | 1 | 1 | 1 | 1 | 0 | 0 | 7.00 |
| **(**[**32**](#_ENREF_32)**)** | 1 | 1 | 1 | 0.75† | 0.5|| | 1 | 1 | 1 | 0 | 0 | 7.25 |
| **(**[**37**](#_ENREF_37)**)** | 1 | 1 | 1 | 0.5\*† | 0.5¶ | 1 | 1 | 1 | 1 | 1 | 9.00 |
| **(**[**38**](#_ENREF_38)**)** | 1 | 1 | 1 | 0.75† | 1 | 1 | 1 | 1 | 1 | 0 | 8.75 |
| **(**[**39**](#_ENREF_39)**)** | 1 | 1 | 1 | 0.75† | 1 | 1 | 1 | 1 | 1 | 0 | 8.75 |
| **(**[**36**](#_ENREF_36)**)** | 1 | 1 | 1 | 0.75† | 1 | 1 | 1 | 1 | 1 | 1 | 9.75 |
| **(**[**35**](#_ENREF_35)**)** | 1 | 1 | 1 | 0\*†‡§ | 1 | 1 | 1 | 1 | 1 | 1 | 9.00 |
| **(**[**41**](#_ENREF_41)**)** | 1 | 1 | 1 | 0\*†‡§ | 0.5|| | 1 | 1 | 1 | 1 | 1 | 8.50 |
| **(**[**42**](#_ENREF_42)**)** | 1 | 1 | 1 | 0.25\*†‡ | 0.5|| | 1 | 1 | 1 | 1 | 1 | 8.75 |
| **(**[**34**](#_ENREF_34)**)** | 1 | 1 | 1 | 0.75† | 1 | 1 | 1 | 1 | 1 | 1 | 9.75 |

\*information on number of animals per cage was not provided (0.25 point subtracted)

†information on actions to improve animal welfare was not provided (0.25 point subtracted)

‡information on temperature was not provided (0.25 point subtracted)

§information on light cycle was not provided (0.25 point subtracted)

||information on anaesthesia was not provided (0.5 point subtracted)

¶information on fasting condition at blood sampling was not provided (0.5 point subtracted)