

Supplementary material for: Atkinson S., Mashburn K. L., Vos D., Romano T.A. & Mahoney B. 2022. Hormone profiles from Cook Inlet, Bristol Bay, and aquarium beluga whales. *Polar Research 41*. Correspondence: S. Atkinson, College of Fisheries and Ocean Sciences, Fisheries Department, University of Alaska Fairbanks, 17101 Pt. Lena Loop Road, Juneau, 99801 AK, USA. E-mail: skatkinson@alaska.edu

The cross- reactivities of antisera used in each assay, as provided by the manufacturer, are as follows.

- (1) Progesterone assay: progesterone 100%, 5 α -pregnan-3,20-dione 9.0%, 17 α -hydroxyprogesterone, 5 β -pregnan-3,30-dione 3.2%, 11-deoxycorticosterone 2.2%, and less than 1.0% for all other ligands tested.
- (2) Testosterone assay: testosterone 100%, 5 α -dihydrotestosterone 3.4%, 5 α -androstane-3 β , 17 β -diol, 2.2%, 11-oxotestosterone 2.0%, 6 β -hydroxytestosterone 0.95%, and less than 1.0% for all other ligands tested.
- (3) Total oestrogens assay: estradiol-17 β 100%, estrone 100%, estriol 9.0%, estradiol-17 α 7%, equilin 2.5%, and less than 0.01% for all other ligands tested.
- (4) TT₄ assay: tetraiodothyroacetic acid 104%, L-thyroxine 100%, D-thyroxine 64%, triiodo-L-thyronine 2%, triiodothyroacetic acid 2.0%, and non-detectable for all other ligands tested.
- (5) TT₃ assay: triiodo-L-thyronine and triiodo-D-thyronine 100%, triiodothyroacetic acid 19.8%, D-thyroxine 1.10%, L-thyroxine 0.50%, and less than 1.0% for all other ligands tested.
- (6) Cortisol assay: prednisolone 76%, methylprednisolone 12%, 11-deoxycortisol 11.4%, prednisone 2.3%, betamethasone 1.6%, cortisone 0.98%, corticosterone 0.94%, and less than 1.0% for all other ligands tested.