**ESM 3** Discrimination factors reported for crustaceans in the literature.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Reference** |  | **Common name** | **Scientific name** | **Discrimination factor** | |
|  | ∆13C | ∆15N |
| (Macko et al. 1982) |  | Amphipod | *Amphithoe valida* | -0.9 | -0.7 |
| (Macko et al. 1982) |  | Amphipod | *Amphithoe valida* | -1.5 | -0.2 |
| (Macko et al. 1982) |  | Amphipod | *Paryhale hawaiensis* | -1.1 | 2.3 |
| (Macko et al. 1982) |  | Amphipod | *Paryhale hawaiensis* | -1.3 | 2.2 |
| (Fry & Arnold 1982) |  | Brown shrimp | *Penaeus aztecus* | -0.7 |  |
| (Fry & Arnold 1982) |  | Brown shrimp | *Penaeus aztecus* | -0.9 |  |
| (Fry & Arnold 1982) |  | Brown shrimp | *Penaeus aztecus* | -0.7 |  |
| (Fry & Arnold 1982) |  | Brown shrimp | *Penaeus aztecus* | 1 |  |
| (Fry & Arnold 1982) |  | Brown shrimp | *Penaeus aztecus* | 1.1 |  |
| (Minagawa & Wada 1984) |  | Brine shrimp | *Artemia sp.* |  | 4.9 |
| (Toda & Wada 1990) |  | Mysid | *Neomysis intermedia* | | 3.2 |
| (Dittel et al. 1997) |  | Shrimp | *Penaeus vannamei* | 2.4 | 1 |
| (Dittel et al. 1997) |  | Shrimp | *Penaeus vannamei* | 0.5 | 2.8 |
| (Fantle et al. 1999) |  | Blue crab | *Callinectes sapidus* | -3.4 | 3.2 |
| (Fantle et al. 1999) |  | Blue crab | *Callinectes sapidus* | -3.2 | 2.2 |
| (Fantle et al. 1999) |  | Blue crab | *Callinectes sapidus* | 0 | 0.8 |
| (Fantle et al. 1999) |  | Blue crab | *Callinectes sapidus* | 0.2 | 0.7 |
| (Fantle et al. 1999) |  | Blue crab | *Callinectes sapidus* | -0.1 | 0.1 |
| (Adams & Sterner 2000) |  | Anomopod | *Daphnia magna* |  | 2.9 |
| (Dittel et al. 2000) |  | Blue crab | *Callinectes sapidus* | 1 | 1.5 |
| (Dittel et al. 2000) |  | Blue crab | *Callinectes sapidus* | 0.2 | 0.8 |
| (Dittel et al. 2000) |  | Blue crab | *Callinectes sapidus* | -0.1 | 0.9 |
| (Dittel et al. 2000) |  | Blue crab | *Callinectes sapidus* | -0.1 | 0.1 |
| (Al-Maslamani 2006) |  | Shrimp | *Penaeus semisulcatus* | 1.6 | 0.1 |
| (Al-Maslamani 2006) |  | Shrimp | *Penaeus semisulcatus* | 2.8 | 1.9 |
| (deVries et al. 2015) |  | Mantis Shrimp | *Neogonodactylus bredini* | 0.9 | 3 |
| (Waddington & MacArthur 2008) |  | rock lobsters | *Panulirus cygnus* | 2.4 | 2.9 |
| (Waddington & MacArthur 2008) |  | rock lobsters | *Panulirus cygnus* | 2.4 | 3.8 |
| (Waddington & MacArthur 2008) |  | rock lobsters | *Panulirus cygnus* | 2.1 | 4.3 |
| (Waddington & MacArthur 2008) |  | rock lobsters | *Panulirus cygnus* | 3.8 | 1.8 |
| (Waddington & MacArthur 2008) |  | rock lobsters | *Panulirus cygnus* | 3.3 | 2.8 |
| (Waddington & MacArthur 2008) |  | rock lobsters | *Panulirus cygnus* | 2.8 | 3 |
| (Carolan et al. 2012) |  | freshwater crustacean | *Cherax destructor* | 1.1 | 1.5 |
| (Glon et al. 2016) |  | crayfish | *Orconectes rusticus* | 0.8 | 1.2 |
| (Glon et al. 2016) |  | crayfish | *Orconectes rusticus* | 1.6 | 2.5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Reference** | **Common name** | **Scientific name** | **Discrimination factor** | |
| ∆13C | ∆15N |
| (Glon et al. 2016) | crayfish | *Orconectes rusticus* | 1.6 | 2.5 |
| (Glon et al. 2016) | crayfish | *Orconectes virilis* | 0.8 | 1.2 |
| (Glon et al. 2016) | crayfish | *Orconectes virilis* | 1.6 | 3.3 |
| (Mazumder et al. 2013) | freshwater crustacean | *Cherax destructor* | 1 | 3.4 |

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