Supplementary Table 1. Coordinates of the sampling locations according to Universal Mercator (UTM) projection system.

|  |  |  |
| --- | --- | --- |
| **LOCATION** | **Easting (X)** | **Northing (Y)** |
| L-1-2-3-4-5-6 | 386366 | 4409680 |
| L-7 | 386533 | 4409812 |
| L-8 | 386600 | 4409862 |
| L-9 | 386570 | 4409950 |
| L-10 | 386560 | 4409870 |
| L-11 | 387066 | 4410045 |
| L-12 (L 12-1–L 12-11) | 386528 | 4409356 |
| L-13. H-1. H-2 | 386301 | 4406610 |
| Hmd 1 (Hmd 1-1–Hmd 1-8). Hmd 1a. Hmd 2a | 386517 | 4409334 |
| Hmd 2 | 386647 | 4409408 |
| Hmd 3 | 386676 | 4409468 |
| Hmd 4 | 386734 | 4409505 |
| Hmd 5 | 386744 | 4409513 |
| H-3. H-4 | 386439 | 4410890 |
| H-5 | 386407 | 4411186 |
| H-6 | 386399 | 4411281 |
| H-7 | 386422 | 4411184 |
| H-8 | 386528 | 4409810 |
| H-9. H-10 | 386512 | 4409804 |
| H-11 | 386477 | 4409797 |
| H-12 | 386529 | 4406507 |

Supplementary Table 2. Melting temperatures *T*m (°C) and wt.% NaCl values of the sample L12-11

|  |  |
| --- | --- |
| *T*m (°C) | Wt.% NaCl  |
| –2.4 | 4 |
| –2.5 | 4.2 |
| –2.5 | 4.2 |
| –2.5 | 4.2 |
| –2.6 | 4.3 |
| –2.9 | 4.8 |
| –3.8 | 6.2 |

Supplementary Table 3. Homogenization temperatures. *T*h (°C) obtained from primary two-phase (liquid + gas) inclusions of sample Hmd 1-2.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| 126 | 138 | 168 | 208 | 288 | 365 |
| 127 | 146 | 168 | 209 | 289 |  |
| 133 | 148 | 179 | 238 | 340 |  |
| 137 | 166 | 198 | 253 | 355 |  |
| Average = 201 |  |  |  |  |  |

Supplementary Table 4. Melting temperatures *T*m (°C) and %NaCl values for Hmd 1-2 from Bodnar (1993).

|  |  |
| --- | --- |
| *Tm* (°C) | % NaCl  |
| –2.3 | 3.9 |
| –2.5 | 4.2 |
| –2.9 | 4.8 |
| –3.1 | 5.1 |
| –3.5 | 5.7 |
| –3.8 | 6.2 |