**Table 1. Microwave settings for BOOST processes**

|  |  |
| --- | --- |
|  | **Microwave set-up** |
|  | **Wattage** | **Programme Time** | **Vacuum** **( 20’’ Hg)** | **ColdSpot Plus** |
| **BOOST for cells****Monomer Anchoring** | 250 W | 30 s on / 15 s off× 7 | / | ON |
| **BOOST for fixed 100 μm tissue sections****Monomer Anchoring** | 250 W | 30 s on / 15 s off× 14 | YES | ON |
| **BOOST for FFPE****Monomer Anchoring** | 250 W | 30 s on / 15 s off× 14 | YES | ON |
| **BOOST for organoids****Monomer Anchoring** | 250 W | 30 s on / 15 s off× 27 | YES | ON |
| **BOOST for whole lymph nodes****Monomer Anchoring** | 250 W | 30 s on / 15 s off× 40 | YES | ON |
| **BOOST for cells****Gelation** | 250 W | 30 s on / 20 s off× 12 | / | ON |
| **BOOST for fixed 100μm tissue section****Gelation** | 250 W | 30 s on / 20 s off× 12 | YES | ON |
| **BOOST for FFPE****Gelation** | 250 W | 30 s on / 20 s off× 12 | YES | ON |
| **BOOST for organoid****Gelation** | 250 W | 30 s on / 20 s off× 18 | YES | ON |
| **BOOST for whole lymph node****Gelation** | 250W | 30 s on / 20 s off× 36 | YES | ON |
| **BOOST** **Hydrolysis / Denaturation** | 650W | 5 minutes on / 30 s off× 4 (cell, tissue section)× 6 (FFPE, organoid)× 12 (whole lymph node) | / | ON |
| **BOOST** **Post-hydrolysis NHS ester / SYTOX Green staining** | 200W | 6 s on / 3 s off× 100 (cell, tissue section, FFPE)× 166 (organoid)× 333 (whole lymph node) | / | / |
| **BOOST** **Post-Hydrolysis immunostaining****Blocking** | 200W | 6 s on / 3s off× 66 (cell, tissue section, FFPE) × 100 (organoid) | / | / |
| **BOOST** **Post-Hydrolysis immunostaining****Primary antibody incubation** | 200W | 6 s on / 3 s off× 66 (cell, tissue section, FFPE) × 100 (organoid) | / | / |
| **BOOST** **Post-Hydrolysis immunostaining****Secondary antibody incubation** | 200W | 6 s on / 3 s off× 66 (cell, tissue section, FFPE) × 100 (organoid) | / | / |
| **FFPE antigen retrieval** | 550W | 5 minutes on / 30 s off× 6 | / | ON |
| **Pre-BOOST immunostaining for cell** | 200W | 4 s on / 3 s off× 40 for blocking, 1’ antibody incubation and 2’ antibody incubation | / | / |
| **BOOST washing (optional)** | 150W | 30 s on / 20 s off × required time | / | ON |