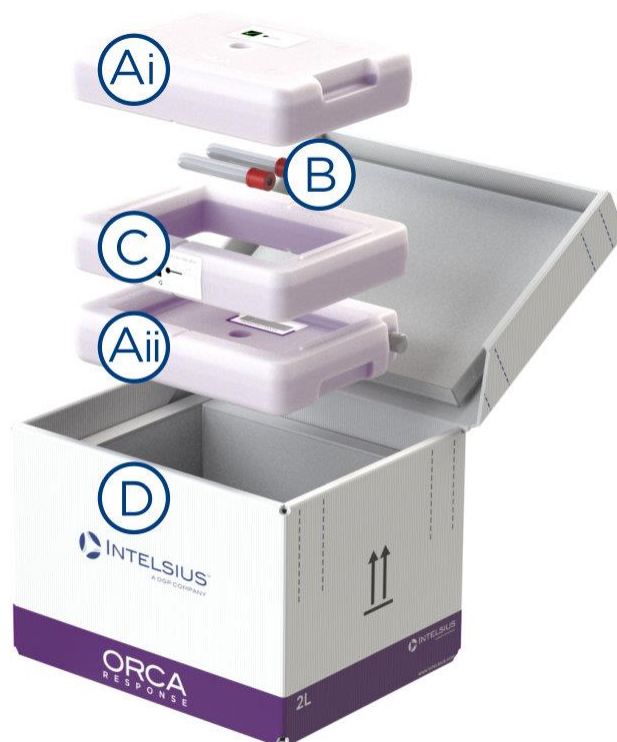


2. Assembly

ORS221 ORCA Response 2L 2°C to 8°C



Component		Quantity
Ai	ORCA Response Plantol lid bottle	1
Aii	ORCA Response Plantol base bottle	1
B	Payload	1
C	ORCA Response Plantol ring bottle	1
D	ORCA Response 2L Case	1

2.1 Conditioning

- 2.1.1 Place the ORCA Response PCM lid and base bottles into a freezer lying down flat with the concave payload recess facing up towards you, and spaced out to allow good airflow around all bottles. The ring bottle must also be placed in the freezer lying down flat on a face with the tongue and grooves.
- 2.1.2 These bottles should be stored in the freezer for a minimum time of 24 hours and at a temperature no lower than -18°C.
- 2.1.3 Before using, ensure the bottles are frozen solid throughout. Once suitably frozen the bottles can be held in the freezer space until needed.
- 2.1.4 The ideal temperature for the PCM bottles when packing the system is 3°C. If the temperature is above 3.5°C the performance will suffer, if the temperature is below 2°C then there is a risk of cold shocking the payload.
- 2.1.5 To prepare the PCM bottles for packing remove them from the freezer and place in a refrigerated environment of 3.0°C $\pm$ 0.5°C for 1 hour. The PCM bottles can be stored in this environment until needed.
- 2.1.6 For quick conditioning or where a refrigerated environment is not accessible, then the bottles can be left on a work bench at ambient temperatures for 10-15 mins and ready for use. There is risk involved as there is less temperature control on the bottles, and they will acclimatise very quickly after 15mins and will not give the desired performance.
- 2.1.7 If the PCM bottles experience a temperature greater than 3.5°C, restart conditioning from 2.1.1.

2.2 Packing Instructions

- 2.2.1 Pack the ORCA Response 2L system with the front of the case (D) closest to you.
- 2.2.2 Place the base bottle (Aii) in the ORCA Response 2L case (D) with the flat side resting on the base of the case, where the bottle orientation is the concave side facing up towards you.
- 2.2.3 Each bottle has an interlocking tongue and groove to enable secure stacking. Ensure to place the bottles on top of each other in the correct orientation when packing such that the tongues are flush inside the grooves.
- 2.2.4 Now place the ring bottle (C) on top of the base bottle (Aii), so that the interlocking tongue and grooves align to ensure the ring bottle and base bottle are flush.
- 2.2.5 The payload (B) can now be placed into the concave area of the bottle.
- 2.2.6 Place the lid bottle (Ai) on top of the base bottle, where the bottle orientation is the concave side facing down away from you and the bottle flat is facing towards you to create the payload space.
- 2.2.7 The lid can now be closed and secured by taping along the two areas marked with dotted lines. Your ORCA Response 2L is now ready to be shipped.