Table 6 The Minimum Sampling and Sample Volume Requirement for Each Plate and Tube Type

Parameter	Plate Type	Standard Mode/HT Mode	Custom Mode With Absolute Count Checked	Custom Mode With Absolute Count Unchecked	
Dead Volume (μL)	12 × 75 mm tube with 40 tube rack	0.5	0.5	0.5	
	24-well plates	265.0	265.0	265.0	
	48-well plates	90.0	90.0	90.0	
	96-well plates (flat-bottom)	26.5	26.5	26.5	
	96-well plates (V-bottom)	0.6	0.6	0.6	
	96-well plates (U-bottom)	0.0	0.0	0.0	
	384-well plates	3.0	3.0	3.0	
	12 X 75 mm Tube with 24 tube cooling rack	0.5	0.5	0.5	
	96-well plate (U-Bottom) with cooling box	0.0	0.0	0.0	
	96-well plate (V-Bottom) with cooling box	0.6	0.6	0.6	
	96-well plate (Flat Bottom) with cooling box	26.5	26.5	26.5	.000.
Sampling Overhead Volume (µL)	All Plates and Racks	10	30	10	
Minimum Sampling Volume (μL)	12 × 75 mm tube with 40 tube rack	10	5	5	
	24-well plates	10	5	5	10001
	48-well plates	10	5	5	
	96-well plates (U-, V- and flat-bottom)	5	5	5	
	384-well plates	5	5	5	
	12 X 75 mm Tube with 24 tube cooling rack	10	5	5	
	96-well plate (U-, V- and Flat Bottom) with cooling box	5	5	5	
Minimum Sample Volume (μL)	12 × 75 mm tube with 40 tube rack	20.5	35.5	15.5	
	24-well plates	285	300	280	
	48-well plates	110	125	105	
	96-well plates (flat-bottom)	41.5	61.5	41.5	
	96-well plates (V-bottom)	15.6	35.6	15.6	
	96-well plates (U-bottom)	15	35	15	
	384-well plates	18	38	18	
	12 X 75 mm Tube with 24 tube cooling rack	20.5	35.5	15.5	
	96-well plate (U-Bottom) with cooling box	15	35	15	
	96-well plate (V-Bottom) with cooling box	15.6	35.6	15.6	
	96-well plate (Flat Bottom) with cooling box	41.5	61.5	41.5	

- **Dead Volume** is the volume of the sample remaining inside the sample tube or plate well that cannot be aspirated into sample injection probe after each sample acquisition.
- **Sampling Overhead Volume** is the volume of extra sample aspirated into the SIP during each sample acquisition.
- Sampling Volume is the volume of the sample user defined in the Stop Condition.
- **Sample Volume** is the volume of the sample user prepared and placed inside the sample rube or plate well before each sample run.

Final min. volume per well =Dead Volume + Sampling Overhead Volume+ min. Sampling volume