LAQUA Electrode Technology

Born from the fusion of our technical expertise and state-of-the-art manufacturing

As a leading pH electrode manufacturer, HORIBA uses the latest technology for all your measurement needs.

Since the development of Japan's first glass electrode for pH meter, HORIBA has focused on continually improving our electrode technology, especially in materials and manufacturing. HORIBA is committed to continually explore and employ groundbreaking solutions in manufacturing next-generation electrodes so that we always provide you with the newest and best electrodes.

pH Electrode		3-in-1 ELECTRODES										
	ction (PLASTIC			STANDARD ToupH	LONG ToupH	MICRO ToupH	SLEEVE ToupH	
			9651-10D / 9652-10D	9625-10D	9630-10D	9631-10D	9632-10D	9615S-10D	9680S-10D	9618S-10D	9681S-10D	
Specification	Applicable temperature range (°C)		0-60/0-80	0-100	0-100	0-60	0-100	0-100	0-100	0-60	0-60	
	Diameter (mm)		16	16	16	16	16	12	8	3	12	
	Length (mm)		150	150	150	155	150	198	283	185	203	
pH - San	nple Con	ditions										
		Normal (over 100 mS/m)	•	•	•	•	•	•	•	•	•	
	Conductivity	Low (approx.10 ~100 mS/m			•						0	
		Very low (approx. 5 ~100 mS/m			0						0	
Aqueous		High (approx. 5 S/m)	0	0	0	0	0	0	0		•	
Solution	Strong alkaline (pH 10-12)						•	0	0		0	
	Strong acidity (pH 0-2) * Except HF sample					•		•				
	Quick heat change (within 50°C)		•	•	•	•	•					
	High viscosity (approx. 5 Pa-S)								_	_	•	1
	Containing non-aqueous solvent							0	0	0	0	
	Suspension							0	0	0	•	
Solid/ Semisolid	Inside											
Comisona	Surface											
	Microtube/p	ate (> 50 μL)								•		
	Ampule	> ø4 mm								•		
Sample Containers	Micro contai								0	•		
	Tube	ID:13 mm, L:100 ~ 150 mm							•			
	Beaker	10 mL ~ 1 L	•	•	•	•	•	•	0	0	0	
	Large contai	ner (> 1 L)	0	0	0	0	0	0	•			
	Petri dish Droplet											
	Dropiet											
	Pure/ion-exchange water (approx. 0.1 mS/m)/ Distilled							0				
	water (approx. 0.5 mS/m) Tap/drinking water (approx.											
Water	10 mS/m)		0	0	•			0			0	
	Surface water				•			0			0	
Chemical reagent/ solvent	Pharmaceutical water/ Enviromental water/acid rain		0	0	0			0			0	
	Caustic/strong acid (Except HF sample)					•		•			0	
	Hydrofluoric acid					•						
	Surfactant							0			•	
	Water-based paint							0			0	
	Dye/coloring agent Protein-containing sample							0		0	•	
Pharmaceutical/ biological sample	Medicinal preparation									0	0	-
									0	•	Ü	
	Tris buffer							•		0	0	
	Suspension							0			•	
	Agar medium Jam							0			•	
Food	Meat/fish/Fruit/vegetable/ Dough											
	Honey											
	Cheese/butter			0								
	Yogurt		0	0	0			0			<u> </u>	1
Beverage/	Beer Milk/Carbonated drink/juice/		U	<u> </u>				0				
seasoning	sauce/soy sauce							0			•	
	Mayonnaise/ketchup							0			0	
Cosmetic/	Beauty cream/mascara Gel/soap/shampoo/Hairdye							0			•	
lotion	lotion							0			•	
	Emulsified liquid							0			0	

								Company of the second			
				and the second		Fry Jrs				//	
11		SEVE						1		200	
11/	The same of the sa				-		3/5				
								9	1		
			COMBINATION ELECTRODES					ISFI ELECTF			
SLEEVE	NON-AQUEOUS	NEEDLE	PLASTIC	STANDARD ToupH	MICRO ToupH	SLEEVE ToupH	LONG	LONG ToupH	FLAT	GENERAL	
6367-10D 0-60	6377-10D 0-60	6252-10D 0-60	9425-10C 0-100	9415-10C 0-100	9418-10C 0-60	9481-10C 0-60	6069-10C 0-60	9480-10C 0-100	6261-10C 0-50	0040-10D 0-60	
12	12	12	16	12	3	12	3	8	12	16	
150	150	150	150	198	185	203	291	283	150	190	
-			Ι .								
•	•	•	•	•	•	•	•	•	•	•	
	•					0					
			0	0		•		0			
0				0		0		0			
				•							
0	•		•			•					
0	•			0	0	0		0		0	
	•	0		0	0	•		0		0	
									•	•	
					•						
					•		0	0			
							•	•			
0	0	0	O	O	0	0	0	<u> </u>	0	0	
									•		
									•		
	•			0							
	•		0	0		0					
	•			0		0					
	0		0	OIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII<l< td=""><td></td><td>0</td><td></td><td></td><td></td><td></td></l<>		0					
						0					
	0			0		•					
	0					•					
0	0			0	0	O					
		0		•	<u> </u>	0		0			
	•			Ö		•			•	•	
	0	0		0		•			0	(surface)	
		•							0	(surface)	
	•	0							0	O(surface)	
0	•	0	0	0		<u> </u>			0	(surface)	
0	0			0		•					
	0			0		•					
	0	0		0							
	•			0		0					