



**RAKIRO**

*Create...Innovate...Deliver!*

**Rakiro Biotech Systems Private Limited**  
**[www.rakiro.net](http://www.rakiro.net)**

# About Us

Rakiro provides solutions for testing, measurement and water treatment for the process Industry. In past few years we have made a mark in the field of testing and have a strong presence in India as well as other parts of the world with a wide network of dealers & distributors. Also with a vast experience in the field of water treatment our chemical division specializes in chemical formulations required in the smooth running of various processes and helps improve the efficiency of production. We are truly invested in understanding our clients' needs and working with them to deliver high quality solutions, with continuously reviewing and improving our way of working. All our products are evaluated and approved by major institutes and authorities in India.

## Our Infrastructure

Our pragmatic workforce & state of the art manufacturing facility produces a wide range of Instruments & Field Test Kits for both microbiological & chemical analytical parameters. Our ERP system based operations help us to make majority of the product range available of the shelf. This helps all our clients in enhancing the pace of onsite Testing or Treatment & thus efficiently monitor a running process. We understand the importance of systems and processes for smooth functioning and thus we follow system driven operations. We have acquired ISO 9001:2015 certification for our Quality Management System (QMS).



Automized Production

Instrument Assembly



Quality Control

R&D Laboratory



## Our Team

For us leadership is not about glorious crowning acts. It's about keeping your team focused on a goal and motivated to do their best to achieve it.



# AQUASOL

## Analyzing Waters Anytime... Anywhere...



AQUASOL test kits are extremely simple and easy to use making monitoring convenient and quick, thus preventive action can be taken immediately. You neither have to be a trained chemist nor require any experience to get reliable results from these test kits.

AQUASOL test kits are based on standard and established analytical methods, backed by chemical research. These are simple adaptations of classic chemical analytical methods. The analytical methods are based on Standard Methods for Examination of Water and Waste Water prepared by American Public Health Association (APHA), American Water Works Association (AWWA), different pharmacopoeias and other standard methods.

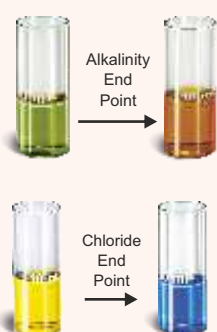
You can have complete confidence in the results you obtain from AQUASOL, as they are extremely reliable. AQUASOL® systems replace conventional analytical methods such as Titrimetric, Colorimetric and Spectrophotometric by simple drop tests and standard colour comparison methods.



AQUASOL reagents are completely ready to use, conveniently packed, and therefore user friendly. Our drop count procedures and colour comparisons tests are economical.

AQUASOL test kits are extremely convenient, and free you from the tedium of the laboratory, while saving precious time. Now you do not have to bother about reagent preparations and standardization. Therefore AQUASOL test kits have been designed especially for you, who require accuracy of the highest standards.

AQUASOL test kits are available for almost all water parameters.



## Combination Kits

# AQUASOL Range

Sr	Parameter	Code	Product Range	No. of Tests
1	Total Hardness Test Kit	AE201	2 - 40 & 5 - 100 PPM (Mg/L)	250
2	Total Hardness Test Kit	AE211	2 - 40 & 25 - 500 PPM (Mg/L)	250
3	Total Hardness Test Kit	AE221	5 - 100 & 25 - 500 PPM (Mg/L)	250
4	Total Hardness Test Kit	AE231	1 - 20 & 5 - 100 PPM (Mg/L)	250
5	Total Hardness Test Kit	AE241	50 - 1000 PPM (Mg/L)	250
6	Total Hardness Test Kit	AE501	2 - 40 & 5 - 100 PPM (Mg/L)	500
7	Total Hardness Test Kit	AE511	2 - 40 & 25 - 500 PPM (Mg/L)	500
8	Total Hardness Test Kit	AE521	5 - 100 & 25 - 500 PPM (Mg/L)	500
9	Total Hardness Test Kit	AE531	1 - 20 & 5 - 100 PPM (Mg/L)	500
10	Total Hardness Test Kit	AE541	50 - 1000 PPM (Mg/L)	500
11	Acidity Test Kit	AE264	10 - 200 & 100 - 2000 PPM (Mg/L)	300
12	Alkalinity Test Kit	AE204	10 - 200 & 100 - 2000 PPM (Mg/L)	300
13	Alkalinity Test Kit	AE214	5 - 100 & 25 - 500 PPM (Mg/L)	300
14	Aluminium Test Kit	AE451*	0.0 - 1.5 PPM (Mg/L)	100
15	Amine Test Kit	AE402	5 - 100 & 50 - 1000 PPM (Mg/L)	300
16	Amine Test Kit	AE412	1 - 20 PPM (Mg/L)	300
17	Ammonia Test Kit	AE307*	0.5 - 8.0 PPM (Mg/L)	250
18	Ammonia Test Kit	AE317*	0.05 - 1.0 PPM (Mg/L)	100
19	Ammonia Test Kit (Salt Water)	AE337*	0.25 - 8.0 PPM (Mg/L)	250
20	Ammonia Test Kit	AE357*	0.05 - 8.0 PPM (Mg/L)	250
21	Arsenic Test Kit	AE408*	0 - 100 PPB (50 Tests) & 0 - 3.0 PPM (50 Tests)	100
22	Arsenic Test Kit	AE418*	0 - 500 PPB (Mg/L)	60
23	Bromine Test Kit	AE404	0.1 - 2.0 PPM (Mg/L)	100
24	Calcium Hardness Test Kit	AE202	5 - 100 PPM (Mg/L)	300
25	Calcium Hardness Test Kit	AE212	25 - 500 PPM (Mg/L)	300
26	Carbon Dioxide Test Kit	AE403	2 - 40 & 10 - 200 PPM (Mg/L)	300
27	Chloride Test Kit	AE203	10 - 200 & 50 - 1000 PPM (Mg/L)	300
28	Chloride Test Kit	AE213	2 - 40 & 5 - 100 PPM (Mg/L)	300
29	Chloride Test Kit	AE213L	1 - 20 PPM (Mg/L)	300
30	Chlorine Dioxide Test Kit	AE405	0.2 - 4.0 PPM (Mg/L)	100
31	Chlorine Dioxide Test Kit	AE415*	0.1 - 5.0 PPM (Mg/L)	300
32	Chlorine Test Kit	AE246	10 - 200 PPM (Mg/L)	500
33	Chlorine Test Kit	AE246L	1 - 20 PPM (Mg/L)	300
34	Chloroscope Test Kit	AE409*	0.05 - 5.0 PPM (Mg/L)	1000
35	Chloroscope Test Kit	AE419*	0.05 - 5.0 PPM (Mg/L)	500
36	Chromate Test Kit	AE208	5 - 100 & 25 - 500 PPM (Mg/L)	200
37	COD Test Kit	AE407	40 - 400 PPM (Mg/L)	100
38	COD Test Kit	AE407HM	0 - 100 Deg	NA
39	COD Test Kit	AE407R	40 - 400 PPM (Mg/L)	100
40	Copper Test Kit	AE310*	0.25 - 5.0 PPM (Mg/L)	250
41	Dissolved Oxygen Test Kit	AEDO8	0.5 - 8.0 PPM (Mg/L)	250
42	Fluoride Test Kit	AE210	0.1 - 2.0 & 1 - 20 PPM (Mg/L)	500
43	Fluoride Test Kit	AE220*	0 - 3 PPM (Mg/L)	200
44	Free Chlorine Test Kit	AE205	0.1 - 2.0 PPM (Mg/L)	200
45	Free Chlorine Test Kit	AE215	0.2 - 4.0 PPM (Mg/L)	200
46	Free Chlorine Test Kit	AE225*	0 - 5.0 PPM (Mg/L)	200

Note: Product marked (\*) are based on Colour Comparison Method & all others products are Drop Titration Method based.



# AQUASOL Range

Sr	Parameter	Code	Product Range	No. of Tests
47	Hydrazine Test Kit	AE304*	0.1 - 1.25 PPM (Mg/L)	200
48	Hydrogen Peroxide Test Kit	AEHP	5 - 100 & 25 - 500 PPM (Mg/L)	300
49	Hydrogen Sulphide Test Kit	AE452*	0 - 1.0 PPM (Mg/L)	200
50	Hydrogen Sulphide Test Kit	AE462*	0 - 25 PPM (Mg/L)	200
51	Iodine Test Kit	AE406	0.1 - 2.0 PPM (Mg/L)	100
52	Iron Test Kit	AE303*	0 - 2.0 PPM (Mg/L)	175
53	Iron Test Kit	AE313*	0 - 10 PPM (Mg/L)	175
54	Manganese Test Kit	AE410*	0.025 - 0.4 PPM (Mg/L)	200
55	Molybdate Test Kit	AE309*	5 - 50 PPM (Mg/L)	325
56	Nitrate Test Kit	AE308*	0.5 - 50 PPM (Mg/L)	400
57	Nitrate Test Kit	AE318*	5 - 160 PPM (Mg/L)	400
58	Nitrate Test Kit (Salt Water)	AE328*	5 - 160 PPM (Mg/L)	400
59	Nitrite Test Kit	AE207	50 - 1000 PPM (Mg/L)	300
60	Nitrite Test Kit	AE217*	0.025 - 0.8 PPM (Mg/L)	400
61	Nitrite Test Kit	AE227*	0.25 - 5.0 PPM (Mg/L)	400
62	Nitrite Test Kit (Salt Water)	AE247*	0.25 - 5.0 PPM (Mg/L)	400
63	Nitrite Test Kit	AE257*	0.04 - 0.8 PPM (Mg/L)	400
64	Ozone Test Kit	AE0Z3	0.05 – 1.00 PPM (Mg/L)	100
65	Ozone Test Kit	AE0Z3H	0.25 – 5.00 PPM (Mg/L)	100
66	PH Test Kit	AE306*	PH 4 - 10	250
67	PH Test Kit	AE316*	PH 6.0 - 9.0	500
68	PH Test Kit	AE326*	PH 7.4 - 9.0	500
69	Phosphate Test Kit	AE301*	0 - 50 PPM (Mg/L)	500
70	Phosphate Test Kit	AE311*	0.1 - 10 PPM (Mg/L)	500
71	Phosphonate Test Kit	AE401	5 - 100 & 50 - 1000 PPM (Mg/L)	300
72	Phosphonate Test Kit	AE411	5 - 100 & 50 - 1000 PPM (Mg/L)	300
73	Silica Test Kit	AE302*	5 - 80 PPM (Mg/L)	400
74	Silica Test Kit	AE312*	0.01 - 0.1 PPM (Mg/L)	75
75	Silica Test Kit	AE322*	0.05 - 5.0 PPM (Mg/L)	100
76	Silica Test Kit	AE332*	75 - 200 PPM (Mg/L)	100
77	Sulphate Test Kit	AE209	10 - 100 & 5 - 1000 PPM (Mg/L)	350
78	Sulphate Test Kit	AE219	5 - 100 & 25 - 500 PPM (Mg/L)	350
79	Sulphite Test Kit	AE206	5 - 100 PPM (Mg/L)	300
80	Sulphite Test Kit	AE216*	5 - 100 PPM (Mg/L)	300
81	Tannin Test Kit	AE2TN	5 - 100 & 25 - 500 PPM (Mg/L)	300
82	Total Chlorine Test Kit	AE235*	0.1 - 2.0 PPM (Mg/L)	200
83	Total Chlorine Test Kit	AE245*	0.2 - 4.0 PPM (Mg/L)	200
84	Turbidity Test Kit	AE300*	1 - 25 NTU	NA
85	Zinc Test Kit	AE305*	0 - 7.5 PPM (Mg/L)	450
86	Swimming Pool Test Kit	AE105*	Chlorine 0.5 - 5 PPM / PH 6.5 - 9	1000

**Note: Product marked (\*) are based on Colour Comparison Method & all others products are Drop Titration Method based.**

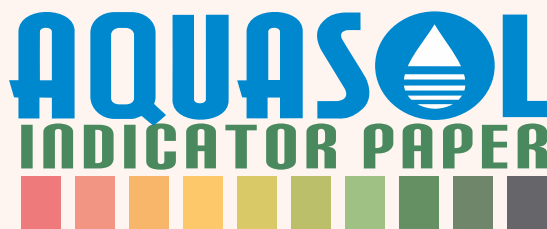
AQUASOL Test Kits are available for almost all water parameters in individual packs, as well as combination packs, depending on the specific requirements of different industries. Also for any specific requirements, Custom Made AQUASOL Systems can be devised both as Individual or Combination Kits.

# AQUASOL Range

Sr	Product Code	Parameters	Product Range	No. of Tests
1	<b>AE101</b> COOLING WATER TEST KIT	Total Hardness	2-40, 5-100, 25-500 PPM (MG/L)	200 Each
		Calcium Hardness	5-100 PPM (MG/L)	
		Alkalinity	10- 200 & 100-2000 PPM (MG/L)	
		Chloride	10-200 & 50-1000 PPM (MG/L)	
		pH	4 to 10	
		Iron (Dissolved)	0 - 2.0 PPM (MG/L)	
		Silica	5 - 80 PPM (MG/L)	
		Phosphate	0 - 40 PPM (MG/L)	
		Free Chlorine	0.1-2.0 PPM (MG/L)	
2	<b>AE102</b> BOILER WATER TEST KIT	Total Hardness	2-40, 5-100, 25-500 PPM (MG/L)	200 Each
		Calcium Hardness	5-100 PPM (MG/L)	
		Alkalinity	10- 200 & 100-2000 PPM (MG/L)	
		Chloride	10-200 & 50-1000 PPM (MG/L)	
		pH	4 to 10	
		Iron (Dissolved)	0 - 2.0 PPM (MG/L)	
		Silica	5 - 80 PPM (MG/L)	
		Phosphate	0 - 40 PPM (MG/L)	
		Sulphite	5-100 PPM (MG/L)	
3	<b>AE103</b> DRINKING WATER TEST KIT	pH	4 to 10	200 Each
		Turbidity	1 to 25 as NTU	
		Total Hardness	10 - 200 & 50-1000 PPM (MG/L)	
		Chloride	10-200 & 50-1000 PPM (MG/L)	
		Free Chlorine (DPD)	0.1-2.0 PPM (MG/L)	
		Iron (Dissolved)	0 - 2.0 PPM (MG/L)	
		Fluoride	0.1 - 2.0 PPM (MG/L)	
		Nitrate	0.5 - 50 PPM (MG/L)	
		Alkalinity	10-200 & 100-2000 PPM (MG/L)	
4	<b>AE104</b> RO WATER TEST KIT	pH	4 to 10	200 Each
		Total Hardness	2-40, 25-500 PPM (MG/L)	
		Calcium Hardness	5-100 PPM (MG/L)	
		Silica	5, 10, 20, 40, 60, 80 PPM (MG/L)	
		Sulphate	10-200, 50-1000 PPM (MG/L)	
		Iron (Dissolved)	0 - 2.0 PPM (MG/L)	
		Nitrate	0.5-50 PPM (MG/L)	
		Nitrite	0.025-0.8 PPM (MG/L)	
5	<b>AE106</b> PURIFIED WATER (IP) TEST KIT	Acidity & Alkalinity	All are Limit Tests	100 Each
		Magnesium & Calcium		
		Ammonium		
		Sulphate		
		Chloride		
		Heavy Metal as Pb		

# AQUASOL Range

Sr	Product Code	Parameters	Product Range	No. of Tests
6	<b>AE107</b> METAL WORKING FLUID TEST KIT	Total Hardness	2-40, 5-100,25-500 PPM (MG/L)	100 Each
		Chloride	10-200 & 50-1000 PPM (MG/L)	
		pH	4—10	
7	<b>AE108F</b> AQUACULTURE FRESH WATER TEST KIT	pH	6.0 - 7.6 & 7.4 - 9.0	100 Each
		Ammonia	0.25 - 8.0 PPM (MG/L)	
		Nitrate	5 - 160 PPM (MG/L)	
		Nitrite	0.25 - 5.0 PPM (MG/L)	
8	<b>AE108S</b> AQUACULTURE SALT WATER TEST KIT	pH	7.4 - 9.0	100 Each
		Ammonia	0.25 - 8.0 PPM (MG/L)	
		Nitrate	5 - 160 PPM (MG/L)	
		Nitrite	0.25 - 5.0 PPM (MG/L)	
9	<b>AE118F</b> AQUACULTURE FRESH WATER TEST KIT	pH	6.0 - 7.6 & 7.4 - 9.0	200 Each
		Ammonia	0.25 - 8.0 PPM (MG/L)	
		Nitrate	5 - 160 PPM (MG/L)	
		Nitrite	0.25 - 5.0 PPM (MG/L)	
		DO	0.5 - 8.0 PPM (Mg/L)	
10	<b>AE118S</b> AQUACULTURE SALT WATER TEST KIT	pH	6.0 - 7.6 & 7.4 - 9.0	200 Each
		Ammonia	0.25 - 8.0 PPM (MG/L)	
		Nitrate	5 - 160 PPM (MG/L)	
		Nitrite	0.25 - 5.0 PPM (MG/L)	
		DO	0.5 - 8.0 PPM (Mg/L)	
11	<b>AE109</b> CONSTRUCTION WATER TEST KIT	Calcium Hardness	25 – 500 PPM (MG/L)	200 Each
		Chloride	10 – 200, 50 – 2000 PPM (MG/L)	
		Acidity	10 – 200, 50 – 1000 PPM (MG/L)	
		Alkalinity	10 – 200, 50 – 1000 PPM (MG/L)	
		Sulphate	10 – 200 PPM (MG/L)	
		pH	0 - 14	
		TDS	0 – 9990 PPM (MG/L)	
12	<b>AE110</b> SOIL TEST KIT (10 Test each)	pH	4—10	10 Each
		Nitrogen	<4, 4-10, 10 -20, 20-40, >50 Kg/ha as N	
		Phosphorous	<25, 25-60, 60 - 80, > 80 Kg/ha as P <sub>2</sub> O <sub>5</sub>	
		Potassium	0, <125, 125-250, 250-400, >400 Kg/ha as K	
		Organic Carbon	< 0.4 % / 0.4 -0.8 % / > 0.8 % w/v	
13	<b>AESTK</b> SOIL TEST KIT (25 Test each)	pH	4—10	25 Each
		Nitrogen	<4, 4-10, 10 -20, 20-40, >50 Kg/ha as N	
		Phosphorous	<25, 25-60, 60 - 80, > 80 Kg/ha as P <sub>2</sub> O <sub>5</sub>	
		Potassium	0, <125, 125-250, 250-400, >400 Kg/ha as K	
		Organic Carbon	< 0.4 % / 0.4 -0.8 % / > 0.8 % w/v	
14	<b>AESPK</b> SWIMMING POOL TEST KIT	Free Chlorine (DPD)	0.1–2.0 PPM (MG/L)	200 Each
		pH	4 to 10	
		Microbiological Test	Coliform Bacteria Presence / Absence Test	6 Test



Indicator Paper Testing have been developed with a mixture of several indicators, which on contact with the sample solution assume a particular color. A check against the color comparison table supplied allows the parameter to be determined. AQUASOL range offers a range of pH indicator and other test papers to meet your specific testing needs. Our AQUASOL Indicator Paper combine ease-of-use with accuracy, consistency and unmatched quality. The convenience of using AQUASOL Indicator Paper for the rapid determination of pH and other parameters has many applications in laboratories and industry.

## Features :

- Instant Readings
- Economical Pack Size
- In Kangaroo Pack
- Accurate for a Wide Range
- Convenient and Portable
- Advance Paper with Long Life



Sr	Product Code	Product Description	Each Pack Contains
1	AIPPH01	INDICATOR PAPER UNIVERSAL -pH 1.0-14.0	10 Booklet of 20 Strips
2	AIPPH02	INDICATOR PAPER WIDE RANGE - pH 2.0-10.5	10 Booklet of 20 Strips
3	AIPPH03	INDICATOR PAPER NARROW RANGE- pH 2.0-4.5	10 Booklet of 20 Strips
4	AIPPH04	INDICATOR PAPER NARROW RANGE-pH 3.5-6.0	10 Booklet of 20 Strips
5	AIPPH06	INDICATOR PAPER NARROW RANGE-pH 5.0-7.5	10 Booklet of 20 Strips
6	AIPPH07	INDICATOR PAPER NARROW RANGE-pH 6.5-9.0	10 Booklet of 20 Strips
7	AIPPH08	INDICATOR PAPER NARROW RANGE- pH 8.0-10.5	10 Booklet of 20 Strips
8	AIPBTB	INDICATOR PAPER BTB (BROMO THYMOL BLUE)	10 Booklet of 20 Strips
9	AIPCL	INDICATOR PAPER CHLORINE TEST ( 5 - 100 PPM )	10 Booklet of 20 Strips
10	AIPCR	INDICATOR PAPER CONGO RED	10 Booklet of 20 Strips
11	AIPBY	INDICATOR PAPER BRILLIANT YELLOW	10 Booklet of 20 Strips
12	AIPLB	INDICATOR PAPER LITMUS BLUE	10 Booklet of 20 Strips
13	AIPLR	INDICATOR PAPER LITMUS RED	10 Booklet of 20 Strips
14	AIPPE	INDICATOR PAPER PHENOLPHTHALEIN	10 Booklet of 20 Strips
15	AIPSI	INDICATOR PAPER STARCH IODIDE	10 Booklet of 20 Strips
16	AIPTH	INDICATOR PAPER THYMOLPHTHALEIN	10 Booklet of 20 Strips

**NOTE: Product Supplied in Multiples of 5 Packs only.**



# Our Clients



# Our Network



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