Quick-Read Precision Cell Slide Chart of Values

10 or 12mL Urine or Body Fluid Specimens Concentrated to 1mL

Total Cells Per 9 Circles	Table A 12mL Concentrated to 1mL Cells/µL	Table B 10mL Concentrated to 1mL Cells/µL	Total Cells Per 3 Circles	<u>Table C</u> 12mL Concentrated to 1mL	<u>Table D</u> 10mL Concentrated to 1mL
				Cells/µL	Cells/µL
1	1	1	4	9	12
2	2	2	5	12	15
3	2	3	6	15	18
4	3	4	7	17	21
5	4	5	8	20	24
6	5	6	9	22	27
7	5	7	10	25	30
8	6	8	11	27	33
9	7	9	12	30	36
10	8	10	13	32	39
11	9	11	14	35	42
12	9	12	15	37	45
13	10	13	16	40	48
14	11	14	17	42	51
15	12	15	18	45	54
16	13	16	19	47	57
17	14	17	20	50	60
18	14	18	21	52	63
19	15	19	22	55	66
20	16	20	23	57	69
21	17	21	24	60	72
22	18	22	25	62	75
23	19	23	30	75	90
24	19	24	35	87	105
25	20	25	40	100	120
26	21	26	45	112	135
27	22	27	50	125	150
28	23	28	60	150	180
			70	175	210

Note: For samples that are less than 12mL, reduce the centrifuged quanitity to 6mL and double the results obtained before using the A or C tables above.

Method of Calculation of Cells/uL using Quick-Read Precision Cell Slide:

1. For 12mL samples concentrated to 1mL, multiply average cells obtained per circle by 7.5.

2. For uncentrifuged 12mL samples, multiply average cells obtained per circle by 90. 3. For 10mL samples concentrated to 1mL, multiply average cells obtained per circle by 9.

4. For 10mL samples concentrated to 0.5mL, multiply average cells obtained per circle by 4.5.

Undiluted, Uncentrifuged Samples

LOW CELL COUNT SAMPLES: Count the total cells of specific type contained in 18 circles.

HIGH CELL COUNT SAMPLES: Count t

Total Cells/18 Circles	Cells/uL	Cells/mL
1	5	5,000
2	10	10,000
3	15	15,000
4	20	20,000
5	25	25,000
6	30	30,000
7	35	35,000
8	40	40,000
9	45	45,000
10	50	50,000
11	55	55,000
12	60	60,000
13	65	65,000
14	70	70,000
15	75	75,000
16	80	80,000
17	85	85,000
18	90	90,000
19	95	95,000
20	100	100,000
25	125	125,000
30	150	150,000
35	175	175,000
40	200	200,000
50	250	250,000

	pecific type cles.	otal cells of s ained in 9 cir	Count the to cont
	Cells/mL	Cells/uL	Total Cells/9 Circles
A	10,000	10	1
Multiply the	20,000	20	2
by 90	30,000	30	3
multiply b	40,000	40	4
multiply b	50,000	50	5
	60,000	60	6
Uncent	70,000	70	7
	80,000	80	8
	90,000	90	9
Colle/m	100,000	100	10
Cens/uL	200,000	200	20
cire	250,000	250	25
	300,000	300	30
Exampl	350,000	350	35
90 RBC	400,000	400	40
	500,000	500	50
DBC calledal = 0	600,000	600	60
RBC cens/m = 0	700,000	700	70
	800,000	800	80
	900,000	900	90
	1,000,000	1000	100
	1,500,000	1500	150
	2,000,000	2000	200
	2,500,000	2500	250

Iternative Calculation: average number of cells per circle to obtain the cells per uL; y 90,000 to obtain cells per mL.

rifuged, Diluted Body Fluids **Calculation Method:**

= average number of cells per cle x 90(factor) x Dilution

e: A specimen is diluted 1:10 cells are counted in 9 circles.

<u>90 cells</u> x 90 (factor) x 10 (dilution) = 9000 9 circles

Quick-Read Precision Cell

Multi-Slide Urinalysis System

For Standardized Microscopic Examination of Urinary Sediment





610 Winters Avenue | Paramus | New Jersey | 07652 Tel: (201) 599-1400 Fax: (201) 599-1406 E-Mail: mail@globescientific.com

Specifications



About Quick-Read Precision Cell

The Quick-Read Precision Cell slide is an innovative product designed to provide accuracy, uniformity and safety in the microscopic examination of urinary sediment. Made of optically clear acrylic for optimal viewing, the slide consists of 10 chambers, each chamber containing 18 circles. Unlike other systems that utilize a series of grids for counting, the Quick-Read Precision Cell slide incorporates pre-measured circles that contain specific volumes of urinary sediment within its circumference. This facilitates a convenient and rapid microscopic examination of the cellular elements in each specimen.

Method

In the Quick-Read Precision Cell method for urinary sediment analysis, a determination is made of the average number of cellular elements within one circle at 400X magnification. This provides the reportable count per HPF (high power field) subject to the dilution factor described on the next page. To arrive at this average number, count the elements in one or more circles and divide the total number counted by the number of circles viewed. Best results are obtained by counting the total number in all 18 circles and then dividing by 18 to obtain the average; however, an average may be obtained by counting fewer circles since the cellular elements should be uniformly distributed throughout the entire chamber. Since differing amounts of urine specimens may be available for testing, saline may be added to reach the required volume. The appropriate factor is then applied based on the non-diluted starting volume to obtain the reportable test results. Note: to determine cells/mL, see the accompanying *Chart of Values*.

Instructions

1. When using the Quick-Prep System: Add urine to the **10mL** mark on the conical test tube (#112010) and affix stopper (#116142).

2. Centrifuge for 5 minutes at 400 rcf (1500 rpm).

3. Decant 9mL from the 10mL tube, leaving 1mL of sediment at the bottom.

4. If preferred, add one drop of urine sediment stain to the residual urine sediment to assist in identification of the urinary cellular elements. Resuspend using the Quick-Pettor.

5. With the Quick-Pettor, place a drop of well-mixed sediment into the scalloped area of a numbered chamber on the Quick-Read Precision Cell slide. The sediment will distribute uniformly in the viewing chamber by capillary action.

6. Scan low power fields at 100x magnification to enumerate casts.

7. Enumerate all other formed elements by scanning high power fields (at 400x magnification, <u>one</u> circle will be in complete view) and determine the average number of elements per circle. (See METHOD on previous page).

Results

If you started with 10mL of urine:

The average number of cellular elements in one circle is the reportable number per HPF (High Power Field).

If you started with 12mL of urine:

Multiply the average number of cellular elements in the one circle by 0.8333. The value thus obtained is equivalent to the number per HPF (High Power Field).

Note: see accompanying Chart of Values on next page for more specific information.

Ordering Information

Cat. #	Description	Packaging
3805	Quick-ReadPrecision Cell urinalysissystem	100/box
3825	Quick-Prep [™] (10mLtube andpipette system)	1000/case
112010	10mLconical tube	4 x 500/case
116142	16mmwhite plugstopper	4 x 1000/case
112015	12mLflared urinetube	2 x 1000/case
113137	Snap-capwith sanitary grip for 12mL tube	3 x 500/case
112192	Patient identificationlabels, 25/sheet	80 x 25/case
6207	3.5ozplastic specimencups	2500/case

