I-KOVA PLASTICS GLASSTIC SLIDE 10 eneSiqondiso
Esisheshayo Se-Grids

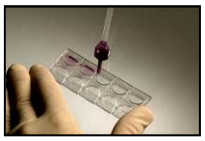
REF

I-KOVA Plastics Glasstic Slide 10 enegridi yobuningi iklanyelwe ukuba isetshenziswe nohlelo olujwayelekile lokuhlanzeka lwe-KOVA Microscopic Urinalysis System:

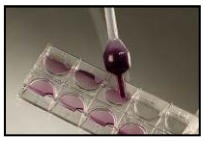
Dlulisa **u 12mL** wesampula yomchamo usuka **ezinkomishini ze-KOVA Eziyipulastiki** uye **eShubhini Le-KOVA Eliyipulastiki**. Faka **iSivalo Se -KOVA Esiyiplastiki** kuyi **Shubhu Le-KOVA Eliyipulastiki** bese uyihlanganisa ku-**400 rcf** (-1500 rpm) **imizuzu engu-5**.

Faka **i-Petter Ye-KOVA Eyipulastiki** ngokuqinile phansi kweshubhu futhi uqiniseke ukuthi isiqeshana esikubhalubhu sixhunywe emaphethelweni angaphandle **eshubhu Le-KOVA Eliyipulastiki** kanye ne-decant. **1.0mL** yenhlabathi izobanjwa yi-**Petter Ye-KOVA Eyipulastiki**.

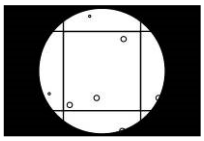
Misa kabusha kancane usebenzisa **i-Petter Ye-KOVA Eyipulastiki**. Faka **iconsi elingu-1** le **-KOVA Stain** ngaphambi kokumiswa kabusha, uma kudingeka, ukuze uthole ubuningi obuthuthukisiwe.



Usebenzisa **i-Petter Ye-KOVA Eyipulastiki**, dlulisela isampula kunotshi esikiwe egunjini lama-slide. Beka i-pipette ngokuhambisana nesilayidi lapho ugcwalisa igumbi. Gwema ukuthinta umgoqo omise okuka-V ngenkathi ukhipha uketshezi. Ukuma okungalungile ekunikezeni kungase kubangele ukuchichima ukusuka kwelinye igumbi kuy kwelinye. Ukwengezwa ngokucophelela kwamasampula kuqinisekisa izindawo zokuphatha ezihlanzekile **Zohlelo lwe-KOVA**.

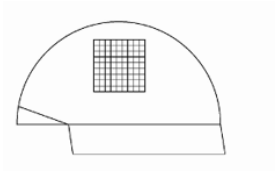


Ngesenzo se-capillary u-6.6 µL wesampula uzodonselwa egunjini le-**KOVA Plastics Slide10** okuholela ekumisweni okufanayo kwenhlenga. Ungaphinde usebenzise imikhiqizo ye-KOVA.



Linganisa ukusakaza ngamandla aphansi (100x). Linganisa wonke amaseli ngamandla aphezulu (400x). Bala amaseli **ngaphakathi** kwemigqa yegridi yesikwele engu-0.33 mm (njengoba kukhonjisiwe). Bheka ithebula yenani ngenani lamaseli nge-µL ngayinye yesampula yesiguli.

INANI LETHEBULA



I-KOVA Plastics Glasstic Slide 10 eneGrid Chamber
Ivolumu Yegumbi:
6.6µL
Ukujula Kwegumbi:
0.1 mm
Ubukhulu Begridi Yangaphandle:
3 mm x 3 mm
Ivolumu ngaphakathi kweGridi:
0.9µL
Usayizi Wegridi Encane:
0.33 mm x 0.33 mm
Ivolumu Yegridi Encane:
0.01111µL

Amasampula Esibalo Seseli Eliphansi:
Bala ingqikithi yamaseli ohlobo oluthile oluqukethwe kumagridi amancane **angu-10** ngaphakathi kwama-quadrant ahlukene egridi yokubala.

Amaseli Aphelele	Amaseli / µL
1	1
2	2
3	2
4	3
5	4
6	5
7	5
8	6
9	7
10	8
11	8
12	9
13	10
14	11
15	11
16	12
17	13
18	14
19	15
20	15
21	16
22	17
23	18
24	18
25	19
26	20
27	21
28	21

Amasampula Enani Eliphezulu Leseli:
Bala ingqikithi yamaseli ohlobo oluthile oluqukethwe kumagridi amancane **angu-5** ngaphakathi kwama-quadrant ahlukene egridi yokubala.

Amaseli Aphelele	Amaseli / µL
5	8
6	9
7	11
8	12
9	14
10	15
11	17
12	18
13	20
14	21
15	23
16	24
17	26
18	28
19	29
20	31
21	32
22	34
23	35
24	37
25	38
30	46
35	54
40	61
45	69
50	77
60	92
70	107

PHAWULA: Kumasampula angaphansi kuka-12mL, yehlisa inani le-centrifuged libe ngu-6mL bese uphinda kabili imiphumela etholwe ngaphambi kokusebenzisa ithebula (ngenhla).

Uhlobo Lweseli	Okuvamile
Ama-leukocyte	0-4/µL
Ama-erythrocyte	0-2/µL

Umngcele	I-Pathological*
4-6/µL	> 6/µL
2-3/µL	> 3/µL

Okunye Ukubala: Nquma **isilinganiso** senani lamaseli kugridi ngayinye **encane** bese usebenzisa isici sokuphindaphinda esilandelayo ukuze ubale amaseli nge-µL ngayinye.

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Ukuze ubale amaseli / µL usebenzisa i-KOVA Plastics Glasstic Slide 10 ngeGridi:

- Kumasampula angagxilile noma ahlanzekile, phindaphinda amaseli amaphakathi atholwe kugridi ngayinye encane x **90**.
- Kumasampula angu-10mL agxiliswe ku-1mL, phindaphinda amaseli amaphakathi atholwe kugridi ngayinye encane x **9**.
- Kumasampula angu-10mL agxiliswe ku-0.5mL, phindaphinda amaseli amaphakathi atholwe kugridi ngayinye encane x **4,5**.
- Kumasampula angu-12mL agxiliswe ku-1mL (Isistimu ye-KOVA), phindaphinda amaseli amaphakathi atholwe kugridi ngayinye encane x **7,5**.

Isibonelo sokubala (Usebenzisa indlela ye-KOVA System 12mL ukuya ku-1mL):

Amaseli	Amagridi Abaliwe	Amaseli Aphelele	Isilinganiso Amaseli / Amagridi	I-Multiple x Factor (7.5)	Amaseli nge-µL ngayinye yamasampula
Ama-Leukoyte	10	5	0,5	0,5 x 7,5	3,8
Ama-erythrocyte	10	14	1,4	1,4 x 7,5	10,5

* Ireferensi: Aiken, CD kanye neSokeland, J. (1983). Urology. Thiems, Stuttgart, Uhlelo Lwesishiyagalolunye, ikh.79

INANI LETHEBULA
ONGAHLANGANISWE NALUTHO, ONGASEFIVE UMCHAMO NOMA AMASAMPULA OKETSHEZI OLUSEMZIMBENI

AMASAMPULA ESIBALO SESELI ELIPHANSI
Bala ingqikithi yamaseli ohlobo oluthile oluqukethwe kumagridi amancane **angu-36** noma ama-quadrant angu-4 aphelele egridi yokubala.

Amaseli Aphelele	Amaseli/µL	Amaseli/mL
1	3	2,500
2	5	5,000
3	8	7,500
4	10	10,000
5	13	12,500
6	15	15,000
7	18	17,500
8	20	20,000
9	23	22,500
10	25	25,000
11	28	27,500
12	30	30,000
13	33	32,500
14	35	35,000
15	38	37,500
16	40	40,000
17	43	42,500
18	45	45,000
19	48	47,500
20	50	50,000
25	63	62,500
30	75	75,000
40	100	100,000
50	126	125,500

Okunye Ukubala:
Phindaphinda inani elimaphakathi lamaseli kugridi ngayinye encane ngo-90 ukuze uthole amaseli ngeµL ngayinye; phindaphinda ngo-90,000 ukuze uthole amaseli ngemL ngayinye.

INANI ELIPHEZULU LESIBALO SAMASAMPULA
Bala ingqikithi yamaseli ohlobo oluthile oluqukethwe kumagridi amancane **angu-10** kumaquadranti ahlukene egridi yokubala.

Amaseli Aphelele	Amaseli/µL	Amaseli/mL
1	9	9,000
2	18	18,000
3	27	27,000
4	36	36,000
5	45	45,000
6	54	54,000
7	63	63,000
8	72	72,000
9	81	81,000
10	90	90,000
20	180	180,000
25	225	225,000
30	270	270,000
35	315	315,000
40	360	360,000
50	450	450,000
60	540	540,000
70	630	630,000
80	720	720,000
90	810	810,000
100	900	900,000
150	1350	1,350,000
200	1800	1,800,000
250	2250	2,250,000

Okunye Ukubala:
Phindaphinda inani elimaphakathi lamaseli kugridi ngayinye encane ngo-90 ukuze uthole amaseli ngeµL ngayinye; phindaphinda ngo-90,000 ukuze uthole amaseli ngemL ngayinye.

INDLELA YOKUBALA UKETSHEZI LOMZIMBA OLUXUTSHIWE:
Amaseli / µL = Isilinganiso senani lamaseli kugridi ngayinye encane x 90 (isici sokuphindaphinda) x ukuhlanjululwa isb, Uketshezi lomgogodla luhlanjululwe ngo-1:10; isamba sama-RBC angu-50 abalwe kumagridi amancane angu-10

$$\text{I-RBC/µL} = \frac{\text{amaseli angu-50}}{\text{amagridi angu-10}} \times 90 \text{ (isici)} \times 10 \text{ (ukuhlanjululwa)}$$

$$= 5 \times 900 = 4{,}500 \text{ RBC's/µL}$$

isib, Isidoda sihlanjululwe 1:20; isamba sesidoda esingu-150 esibalwe kumagridi amancane ama-5

$$\text{Isidoda/µL} = \frac{150}{5} \times 90 \text{ (isici)} \times 20 \text{ (ukuhlanjululwa)}$$

$$= 30 \times 1800 = 54{,}000 \text{ isidoda/µL}$$

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INGQIKITHI YOKUBALWA KWAMASELI OHLELO OLUJWAYELEKILE[1]

UKETSHEZI	UHLOBO LWESELI	OLUJWAYELEKILE	OLUNGAJWAYELEKILE	UKETSHEZI	UHLOBO LWESELI	OLUJWAYELEKILE	OLUNGAJWAYELEKILE
Umchamo (2)	Ama-leukocyte Ama-erythrocyte	0-6/µL 0-3/µL	> 6/µL > 3/µL	I-Synovial	Ama-leukocyte Ama-erythrocyte	<200/µL < 2,000/µL	> 200/µL > 2,000/µL
I-CSF (Ibanga labadala)	Ama-leukocyte	0-5/µL	> 5/µL	I-Pleural	Ama-leukocyte	< 1,000/µL	> 1,000/µL
				I-Pericardial	Ama-leukocyte	< 1,000/µL	> 1,000/µL
Okusasidoda	Isidoda	40,000/µL - 160,000/µL	< 40,000/µL	Pertoneal	Ama-leukocyte Ama-erythrocyte	<300/µL < 100,000/µL	> 300/µL > 100,000/µL

Izikhombo: (1) I-Strasinger, SK (1985) **Ukuhlaziywa Komchamo kanye Noketshezi Lomzimba**, FA Davis, Philadelphia • (2) Alken, CD, kanye ne-Sokeland, J. (1983) **Urologie**, Thiems, Stutgart, Edition Nineth, ikh. 79