

Inkqubo ye-Plastic ye-Kova yoHlalutyo lomchamo esemgangathweni

INKQUBO YEPLASTIKI KOVA YOKUJONGA URINALYSIS

Uhlalutyo lomchamo, njengoko lusenziwa ngoku kwiilabhoratri ezininzi, lwenziwa kusetyenziswa iinkqubo ezahlukeneyo ezingekho mgangathweni. Ezi nkqubo ziyahluka ukusuka kwilebhu ukuya kwilebhu kwaye rhoqo obona buchule bangaphakathi elabhoratri buyahluka ngokuxhomekeke kumntu owenza uvavanyo.

Imithombo yokwahluka kuhlalutyo olughelekileyo lochamo:

- ukwahluka kumthamo womchamo
- iimeko ezahlukeneyo ze-centrifugal zidala izixa ezahlukeneyo zentlenge kuviwo lwemicroscope
- Izixa ezahlukeneyo zentlenge eqokelelweyo kwaye ixhonywe phantsi kweglasi yokugquma
- ukwahluka kobuchule phakathi kwabantu abenza inkqubo.

Ukulungelelanisa inkqubo yohlalutyo lomchamo, umthamo wesampulu engaguqukiyo, amandla e-centrifugal kunye nomthamo wentlenge kufuneka ugcinwe, kwaye indlela engaguqukiyo yovavanyo lwe-microscopic kunye nokunika ingxelo yeziphumo kufuneka isetyenziswe. Inkqubo yePlastic ye-KOVA ifezekisa lo mgangatho ngokunciphisa ukwahluka, kuquka ukungafani kobuchule phakathi kweengcali.

UKUSETYENZISWA OKUCETIWEYO

I- **Nkqubo ye-Plastic ye-KOVA** inikezela ngenkqubo kunye neemveliso ezingasetyenziselwa ukuvelisa iziphumo ezisemgangathweni ngexesha lohlalutyo lomchamo. Ukulawulwa komthamo, ukungaguquguquki kunye nococeko lunikezelwa ukusuka ekuqokeleleni nasekuthuthweni ukuya kuhlalutyo lwe-microscopic lwentlenge yomchamo. Ulawulo olusemgangathweni lunokusetyenziselwa ulawulo olupheleleyo lomgangatho weenkqubo zovavanyo zomzimba, iikhemikhali kunye nemicroscope.

IINZUZO

Ukuba inkqubo echaziweyo ilandelwa ngokuqhubekayo, umntu unokusebenzisa amaxabiso afunyenwe kuhlalutyo lomchamo ngokuzithemba. Oogqirha banokulandela inkqubela phambili kunye nonyango lwezigulana ngokuqinisekileyo; naluphi na

lunokuthathwa njengolubalulekileyo.

Iilabhoratri zinokuthlekiswa kwaye izigulana eziphantsi koqwalaselo kunokwenziwa uhlalutyo lomchamo kwiilebhu ezahlukeneyo ezineziphumo ezithelekisekayo.

INKQUBO YE-PLASTIC YE-KOVA KUNYE NAMACANDELO ENKQUBO

Inombolo yeMveliso	Ingcaciso yeMveliso	Izigqibo ngePhakeji nganye
87153E	INKQUBO ye-Plastic Super Pac 1000 w / Caps YE-KOVA 100 KOVA Plastics Glasstic Slide 10 (amagumbi ali-10), 1000 KOVA Plastics Petters, 1000 KOVA Plastics Super Tubes, 1000 KOVA Plastics Caps	1000
87154E	Inkqubo ye-Plastic System Super Pac 1000 ye-KOVA 100 KOVA Plastics Glasstic Slide 10 (amagumbi ali-10), 1000 KOVA Plastics Petters, 1000 KOVA Plastics Super Tubes	1000
87162E	Inkqubo ye-Plastic System Super Pac 1000 ye-KOVA enee-Grid 100 KOVA Plastic Slide 10 (amagumbi ali-10) ngee/Grid, 1000 KOVA Plastics Petters, 1000 KOVA Plastics Super Tubes	1000
87155E	Inkqubo ye-Plastic Pac II ye-Kova 100 KOVA Plastics Slide II (enamagumbi ama-4), 400 KOVA Plastics Petters, 400 KOVA Plastics Super Tubes	400
87156E	Inkqubo ye-Plastic Value Pac 500 50 KOVA Plastics Glasstic Slide 10 enee-Grid 500 KOVA Plastics Economy Tubes, 100 KOVA Plastics Caps	500
87158E	KOVA Plastics System Ixabiso Pac 500 kunye Grids 50 KOVA Plastics Glasstic Slide 10 (amagumbi ali-10), 500 KOVA Plastics Petters, 500 KOVA Plastics Economy Tubes	500
87141E	]KOVA Plastics KO-LEC-PAC 500 KOVA Plastics Super Tubes, 500 KOVA Plastics Caps, 500 KOVA Plastics Cups, 500 Labels kunye nee-Rack zoThutho ezi-5	500
87100E	KOVA Plastics Slide II nge-Grid yobungakanani; 100 x 4 amaqula izilayidi; nge-1mm x 1mm yesikwere segridi nganye	400
87118E	KOVA Plastics Slide II (ngaphandle kwe-grid) 100 x 4 well slides	400
87146E	KOVA Plastics Glasstic Slide IO 100 x 10 well slides in crystal clear Acrylic	1000
87157E	KOVA Plastics Glasstic Slide IO 50 x 10 well slides in crystal clear Acrylic	500
87144E	KOVA Plastics Glasstic Slide IO nge-Grid 100 x 10 well slides in crystal clear Plexiglas* enobungakanani igridi; igumbi ngalinye line-6.6 µl kwaye line-3 mm x 3 mm	1000

igridi enezahlulo ezintle ze-0.33 mm x 0.33 mm. Inkqubo yovavanyo ibandakanya indlela yokwenza ubungakanani beeseli ngeµl nganye yeesampulu zesigulana.

INKQUBO YE-PLASTIC YE-KOVA KUNYE NAMACANDELO ENKQUBO - IYAQHUBEKA

Inombolo yeMveliso	Ingcaciso yeMveliso	Izigqibo ngePhakeji nganye
87137E	KOVA Plastics Super Tube Uthweswe isidanga uqokelelo olulahlwayo olungenantsholongwane kunye ne-centrifuge iibhubhu ezenziwe ngempembelelo ephezulu, iplastiki engenakophuka yokuphelisa ukuqhekeka okanye ukophuka ngexesha le-centrifugation.	500
87138E	KOVA Plastics Economy Tube Njengoko kungentla kodwa kuqoqosho, iplastiki ye-styrene enganyangekiyo.	500
87135E	KOVA Plastics Petter I-Pipette elahlwayo yokudlulisa yeplastiki eyenzelwe ukugcina i-1.0 ml yomchamo emva kwe-centrifugation. Incam yokutshixa eyodwa ibonelela ngenyathelo elinye lendlela yokugalela ekhululeke ekungcolisekeni.	500
87139E	KOVA Plastics Cap Kucetyiswa ukubu ithintela ukuchitheka ngexesha lokuthutha, kunye nokungcoliseka kwamathontsi ngexesha le-centrifugation.	500
87136E	KOVA Plastics Decanting Rack I-Rack yokugalela ukuya kuthi ga kwiisampulu ezili-10.	Irakhi e-1

UKUQOKELELWA KWESAMPULI KUNYE NOTHUTHO

Inkqubo ye-Plastic KO-LEC-PAC ye-KOVA iyacetyiswa ukuba isetyenziswe ngolu hlobo lulandelayo:

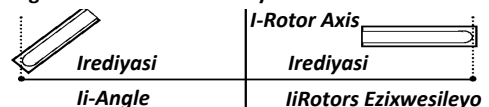
1. Faka ileyibhile kwi-KOVA Plastics Tube kwaye unike isigulana i-3 ½ oz. KOVA Plastics Cup.
2. Yalela isigulana ukuba siqokelele umchamo okhutshiweyo kwi-KOVA Plastics Cup.
3. Dlulisa isampuli yomchamo kwi-KOVA Plastics Cup ukuya kwi-KOVA Plastics Tube, uyigcwalise kwi-12 ml epheleleyo.
4. Beka i-KOVA Plastics Cap kwi-KOVA Plastics Tube kwaye uyibeke kwi-KOVA Plastics Rack zoThutho ukuze ithuthwe kwaye igcinwe.
5. Yise elebhu ngokukhawuleza kangangoko, kukhethwa ukuba zingaphelanga iiyure ezimbini, kodwa zingadlulanga iiyure ezine emva kokuqokelelwa kwesampuli.

INKQUBO YOVAVANYO YENKQUBO YE-PLASTIC YE-KOVA

1. Jonga ubunzima obuthile ngokubeka ithontsi elinye okanye amabini omchamo kwi-refractometer yobushushu ezenzekelayo okanye usebenzise umcu wovavanyo lwekhemistri oqulethe i-parameter ethile yobunzima kwaye urekhode iziphumo.
2. Ukusebenzisa imicu yokuvavanya ye-reagent, yenza uvavanyo lwekhemikhali ngokwemiyalelo yomenzi. Rekroda iziphumo eziqatshelweyo. Ulawulo kufuneka lubandakanywe kwibhetshi nganye ukuqinisekisa ulawulo olululo lomgangatho weenkqubo zovavanyo lomzimba, iikhemikhali kunye ne-microscopic.
3. Centrifuga i-KOVA Plastics Tubes (nganye iqulethe i-12ml yesampuli yomchamo okanye uLawulo) kwi-centrifugal force (rcf) ye-400 imizuzu emihlanu; malunga 1500 revolutions ngomzuzu (rpm) kunye 6-intshi radius rotor. Ifomula esetyenzisiweyo:

$$rcf = 28.38 (R) \left(\frac{N}{1000} \right)^2 \frac{R}{N} = \text{iradius verotor ngee-revolution ngomzuzu}$$

I-radius ejikelezayo ngumgama olinganiswa ukusuka kwi-axis ye-rotor ukuya kwincam yolwelo ngaphakathi kweetyhubhu kumgama omkhulu oxwesileyo ukusuka kwi-rotor axis.



4. Susa i-KOVA Plastics Tubes kwi-centrifuge, ulumke ukuba ungaphazamisi okanye ukhuphe intlenge.
5. Faka i- KOVA Plastics Petter kwi-KOVA Plastics Tube. Tyhala i-KOVA Plastics Petter ukuya ezantsi kwe-KOVA Plastics Tube ide ihlale ngokuqinileyo (kwi-1ml epheleleyo).

6. Galela kwaye ulahle i-11ml kwi-KOVA Plastics Tube ngelixa i-KOVA Plastics Petter ivaliwe kwindawo kwi-KOVA Plastics Tube. Oku kuya kugcina i-1ml yentlenge yomchamo ezantsi kwe-KOVA Plastics Tube.
7. Khupha i- KOVA Plastics Petter yePetter kwi-KOVA Plastics Tube.
8. Yongeza ithontsi elinye lecala kwi-1ml yentlenge yomchamo. Phawula: Ibala luncedo ekuncedeni ukukwahlukana kweeseli zezinto kwaye kuyakhethwa.
9. Usebenzisa i-KOVA Plastics Petter, xuba kwakhona ngobunono intlenge kunye nebala kuze kube umxube olinganayo ufunyenwe.

INKQUBO YOAVAVANYO YENKQUBO YE-KOVA PLASTICS - Iyaqhubeka

10. Khupha isampuli encinci yomxube webala wentlenge yomchamo ngokucinezela ibhalbhu ye- KOVA Plastics Petter.
11. Dlulisa umxube wentlenge kwi-KOVA Plastics Slide ngokubeka ithontsi elinye kwi-cut-out notch yegumbi ngalinye. Xa amagumbi 1-5 akumgca ophezulu, i-notch ikwikona ephezulu ngasekhohlo yamagumbi, xa amagumbi 6-10 aphezu akumgca ophezulu, i-notch ikwikona ephezulu ngasekunene yamagumbi. Igumbi liya kuzaliswa ngesenzo se-capillary. Kuphephe ukubamba umqobo omile okwe-V phakathi kwamagumbi ngelixa ukhupha ulwelo. Ukubekwa ngendlela engafanelekanga xa ukhupha kunokubangela ukuphuphumala ukusuka kwelinye igumbi ukuya kwelinye.
12. Susa nayiphi na isampuli engqithisileyo eseleyo kwindawo evulekileyo ngokuchukumisa i-edge evulekileyo ngezinto ezifunxayo.
13. Beka i-KOVA Plastics Slide kwiqonga le-microscopic phantsi kwenjongo yelensi.
14. Skena igumbi le-slide phantsi kokwandisa amandla aphantsi (i-10X eyepiece / 10X injongo) ukubala iicasts. Bala zonke ezinye izinto ezenziweyo phantsi kokwandiswa kwamandla aphezulu (i-10X eyepiece/40X injongo). Musa ukuphinda usebenzise iimveliso ze-KOVA Plastics.

Kuhlalutyo lwe-slide esi-Gridded, bhekisa kwiINKQUBO YOAVAVANYO YENKQUBO YE-KOVA PLASTICS - IGRIDDED

AMANANI ALINDELEKILEYO - IMICROSCOPI†

1 + = Imo yamaxesha athile iphawulwe
 2 + = Kuphawulwe kuwo zonke iindawo
 3 + = Izixa ezikhulu kuzo zonke iindawo
 4 + = Indawo epheleleyo

I-HPF = I-High Power Field 400X
 I-LPF = I-Lower Power Field 100x

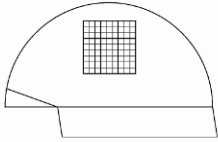
Hlalutya	Luqhelekile	Aluqhelekanga	Ingxelo yeZiphumo
WBC	0-5/HPF	> 5/HPF	Amanani/HPF
RBC	0-3/HPF	> 3/HPF	Amanani/HPF
Iiseli ze-Epithelial	0	Nayiphi na (ngaphandle squamous)	Amanani/HPF
Iikristale	0-3/HPF (ayiyo-pathogenic)	> 3 Nayiphi na aluqhelekanga	Amanani/HPF
Igwele	0	Nayiphi na	1 + ukuya ku-4 +/HPF
I-Trichomonads	0	Nayiphi na	1 + ukuya ku-4 +/HPF
Iicasts	0	Nayiphi na ngakumbi > 1 i-hyaline cast/LPF	Amanani/LPF
Iintsholongwane	0-5/HPF	> 5/HPF	1 + ukuya ku-4 +/HPF
Amafutha	0	Imizimba yamafutha ombhoxo okanye amafutha asimahla	1 + ukuya ku-4 +/HPF

† UBernard Statland, uMLO. iphepha 13-14; EyoMqungu 1985

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ITAFILE YEXABISO



Isampulu eziPhantsi zeSeli Ezibaliweyo:

Bala iiseli zizonke zohlobo oluthile oluqulethwe kwii-grid ezincinci **ezili-10** ngaphakathi kwee-quadrants ezahlukeneyo ze-grid yokubala.

Iiseli Zizonke	Iiseli / 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

Isampulu eziPhezulu zeSeli Ezibaliweyo:

Bala iiseli zizonke zohlobo oluthile oluqulethwe kwii-grid ezincinci **ezi-5** ngaphakathi kwee-quadrants ezahlukeneyo ze-grid yokubala.

Iiseli Zizonke	Iiseli / 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: Kwiisampuli ezingaphantsi kwe-12mL, nciphisa ubungakanani be-centrifuge ukuya kwi-6mL kwaye kabini iziphumo ezifunyenweyo ngaphambi kokusebenzisa itafile (ngasentla).

Uhlobo lweSeli	Lughelekile
Leukocytes	0-4/ μL
Erythrocytes	0-2/ μL

Umda	Pathological*
4-6/ μL	> 6/ μL
2-3/ μL	> 3/ μL

Olunye Ubalo: Misela **inani eliqhelekileyo** leeseli kwi-grid nganye **encinci** kwaye emva koko usebenzise uphinda-phindo olulandelayo ukubala iiseli nge- μL nganye.

Ukubala iiseli / μL usebenzisa i-KOVA ye-Plastic Slide ye-Glasstic ye-10 nge-Grid:

- Kwiisampulu ezingena-centrifuge okanye ezicocekileyo, phinda-phinda iiseli eliqhelekileyo ezifunyenwe ngokwe-grid nganye encinci x **90**.
- Kwiisampuli ze-10mL ezixutywe kwi-1mL, phindaphinda iiseli eliqhelekileyo ezifunyenwe ngegridi encinci x **9**.
- Kwiisampuli ze-10mL ezixutywe kwi-0.5mL, phindaphinda iiseli eliqhelekileyo ezifunyenwe ngegridi encinci x **4.5**.
- Kwiisampuli ze-12mL ezixutywe kwi-1mL (i-KOVA System), phindaphinda iiseli eliqhelekileyo ezifunyenwe ngegridi encinci x **7.5**.

Umzekelo wokubala (Usebenzisa i-KOVA System 12mL ukuya ku-1mL indlela):

Iiseli	Ii-grid Ezibaliweyo	Iiseli Zizonke	Iiseli Eliziqhelekileyo / Ii-Grid	x Factor Ezininzi(7.5)	Iiseli kwi- μL nganye yeeSampuli
Leukocytes	10	5	0,5	0,5 x 7,5	3,8
Erythrocytes	10	14	1,4	1,4 x 7,5	10,5

* Isalathisi: Aiken, CD kunye neSokeland, J. (1983). Urologie. Thiems, Stuttgart, uHlelo lwesithoba, iphe.79

ITAFILE YEXABISO

UMCHAMO ONGAXUTYWANGA, ONGAFAKWANGA KWI-CENTRIFUGE UCHITHO OKANYE IISAMPULI ZOLWELO LOMZIMBA

IISAMPULI EZIPHANTSI ZESELI EZIBALIWEYO

Bala iiseli zizonke zohlobo oluthile oluqulethwe kwii-grid ezincinci **ezingama-36** okanye ii-quadrants ezi-4 ezipheleleyo ze-grid yokubala.

Iiseli Zizonke	Iiseli/ μL	Iiseli/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

IISAMPULI EZIPHEZULI ZESELI EZIBALIWEYO

Bala iiseli zizonke zohlobo oluthile oluqulethwe kwii-grid ezincinci **ezili-10** kwii-quadrants ezahlukeneyo ze-grid yokubala.

Iiseli Zizonke	Iiseli/ μL	Iiseli/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

Olunye Ubalo:

Phinda-phinda iiseli eziqhelekileyo ezifunyenwe ngokwe-grid nganye encinci ngama-90 ukuze ufumane iiseli nge- μL nganye; phindaphinda ngama-90,000 ukufumana iiseli nge-mL nganye.

Olunye Ubalo:

Phinda-phinda iiseli eziqhelekileyo ezifunyenwe ngokwe-grid nganye encinci ngama-90 ukuze ufumane iiseli nge- μL nganye; phindaphinda ngama-90,000 ukufumana iiseli nge-mL nganye.

INDLELA YOKUBALA ULWELO LOMZIMBA OLUXUTYIWEYO:

Iiseli / μL = Ilnani eliqhelekileyo leeseli kwi-grid encinci nganye x 90 (uphinda-phindo) x nokuxuba umz., Ulwelo loMnqonqo oluxutyiweyo 1:10; lulonke ngama-50 eeRBC's abalwe kwii-grid ezincinci ezili-10

$$\text{RBC}/\mu\text{L} = \frac{\text{iiseli ezingama-50}}{\text{ii-grid ezili-10}} \times 90 (\text{i-factor}) \times 10 (\text{ukuxuba})$$

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

umz., Isidoda esixutyiweyo 1:20; Isidoda sisonke singama-150 esibalwe kwii-grid ezincinci ezi-5

$$\text{Isidoda}/\mu\text{L} = \frac{150}{5} \times 90 (\text{i-factor}) \times 20 (\text{ukuxuba})$$

$$= 30 \times 1800 = 54,000 \text{ amadlozi}/\mu\text{L}$$

UBALO LWESELI LULONKE LULUHLU LWESIQHELO⁽¹⁾

ULWELO	UHLOBO LWESELI	LUQHELEKILE	ALUQHELEKANGA	ULWELO	UHLOBO LWESELI	LUQHELEKILE	ALUQHELEKANGA
Umchamo (2)	Leukocytes Erythrocytes	0-6/ μL 0-3/ μL	> 6/ μL > 3/ μL	Synovial	Leukocytes Erythrocytes	< 200/ μL < 2,000/ μL	> 200/ μL > 2,000/ μL
CSF (Uluhlu lwabantu abadala)	Leukocytes	0-5/ μL	> 5/ μL	Pleural	Leukocytes	< 1,000/ μL	> 1,000/ μL
				Pericardial	Leukocytes	< 1,000/ μL	> 1,000/ μL
Intanda	Isidoda	40,000/ μL - 160,000/ μL	< 40,000/ μL	Pertoneal	Leukocytes	< 300/ μL	> 300/ μL
					Erythrocytes	< 100,000/ μL	> 100,000/ μL

Izalathisi: (1) Strasinger, SK (1985) **Urinalysis kunye ne-Body Fluids**, FA Davis, Philadelphia • (2) Alken, CD, kunye no-Sokeland, J. (1983) **Urologie**, Thiems, Stuttgart, Edition yesithoba, pg. 79

Uphawu	IsiXhosa
	Ibhetshi/iKhowudi yeSazisi
	Ukuphelelwa kwexesha/Sebenzisa nge
	Umenzi
	Inombolo Yekhathalogu
	Iqulathe uBuninzi
	Musa Ukuphinda Usebenzise
	Isichongi seSixhobo eSisodwa
	Ukusetyenziswa kwe-Invitro Diagnostics
 www.kovaplastics.com	Imiyalelo yokuSetyenziswa/iMiyalelo yokusetyenziswa kwe-elektroniki
	Yenziwe kwiLizwe (United States)
	Imida yokuGcina

	Alltrista Plastics LLC 20 Setar Way Reedsville, Pa 17084 United States Customer Service: +1 864-879-8100		Advena Ltd. Tower Business Centre, 2 nd Flr. Tower Street, Swatar, BKR 4013 Malta
	EU Economic Operator MDR/IVDR Article 13 Advena Services Ltd. Tower Business Centre, Tower Street Swatar, BKR 4013 Malta		Axon Lab Ag Täferstrasse 15 CH-5405 Baden-Dättwil Switzerland

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