

1. Transmisson

Results of statistical analysis of distinctions between preparations by means of Mann-Whitney U-test

“lyd” re “K”

cm ⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
103.767	187.0000	278.0000	67.0000	-1.88725	0.059127	-1.88725	0.059127	15	15	0.061279
104.169	180.0000	285.0000	60.0000	-2.17760	0.029437	-2.17760	0.029437	15	15	0.029496
104.572	177.0000	288.0000	57.0000	-2.30203	0.021334	-2.30203	0.021334	15	15	0.020902
104.974	176.0000	289.0000	56.0000	-2.34351	0.019104	-2.34351	0.019104	15	15	0.018554
105.376	176.0000	289.0000	56.0000	-2.34351	0.019104	-2.34351	0.019104	15	15	0.018554
105.778	180.0000	285.0000	60.0000	-2.17760	0.029437	-2.17760	0.029437	15	15	0.029496
106.18	184.0000	281.0000	64.0000	-2.01169	0.044254	-2.01169	0.044254	15	15	0.045334
106.583	204.0000	261.0000	84.0000	-1.18212	0.237157	-1.18212	0.237157	15	15	0.249556

$p_{cum} = 2.83801E-10 < p_B$

“euf” re “K”

cm ⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
110.202	185.0000	280.0000	65.0000	-1.97021	0.048815	-1.97021	0.048815	15	15	0.050222
110.605	183.0000	282.0000	63.0000	-2.05316	0.040057	-2.05316	0.040057	15	15	0.040840
111.007	179.0000	286.0000	59.0000	-2.21908	0.026482	-2.21908	0.026482	15	15	0.026354
111.409	181.0000	284.0000	61.0000	-2.13612	0.032670	-2.13612	0.032670	15	15	0.032944
111.811	186.0000	279.0000	66.0000	-1.92873	0.053765	-1.92873	0.053765	15	15	0.055530

$p_{cum} = 3.54575E-05 < p_B$

“anlg” re “K”

cm ⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
108.996	195.0000	270.0000	75.00000	-1.55543	0.119845	-1.55543	0.119845	15	15	0.126147
109.398	185.0000	280.0000	65.00000	-1.97021	0.048815	-1.97021	0.048815	15	15	0.050222
109.8	178.0000	287.0000	58.00000	-2.26055	0.023788	-2.26055	0.023788	15	15	0.023496
110.202	174.0000	291.0000	54.00000	-2.42647	0.015247	-2.42647	0.015247	15	15	0.014519
110.605	167.0000	298.0000	47.00000	-2.71681	0.006592	-2.71681	0.006592	15	15	0.005704
111.007	166.0000	299.0000	46.00000	-2.75829	0.005811	-2.75829	0.005811	15	15	0.004940
111.409	179.0000	286.0000	59.00000	-2.21908	0.026482	-2.21908	0.026482	15	15	0.026354
111.811	191.0000	274.0000	71.0000	-1.72134	0.085190	-1.72134	0.085190	15	15	0.089195

$p_{cum} = 2.53328E-10 < p_B$

“All set of preparations” re “K”

cm ⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
102.561	1276.000	554.0000	241.0000	-1.64741	0.099475	-1.64741	0.099475	45	15	0.101648
102.963	1268.000	562.0000	233.0000	-1.78398	0.074428	-1.78398	0.074428	45	15	0.075658
103.365	1246.000	584.0000	211.0000	-2.15956	0.030808	-2.15956	0.030808	45	15	0.030419
103.767	1241.000	589.0000	206.0000	-2.24491	0.024774	-2.24491	0.024774	45	15	0.024206
104.169	1236.000	594.0000	201.0000	-2.33027	0.019792	-2.33027	0.019792	45	15	0.019103
104.572	1232.000	598.0000	197.0000	-2.39856	0.016460	-2.39856	0.016460	45	15	0.015709
104.974	1237.000	593.0000	202.0000	-2.31320	0.020712	-2.31320	0.020712	45	15	0.020043

105.376	1254.000	576.0000	219.0000	-2.02298	0.043076	-2.02298	0.043076	45	15	0.043111
105.778	1267.000	563.0000	232.0000	-1.80105	0.071696	-1.80105	0.071696	45	15	0.072821
cm⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
109.398	1258.000	572.0000	223.0000	-1.95470	0.050620	-1.95470	0.050620	45	15	0.050936
109.8	1239.000	591.0000	204.0000	-2.27906	0.022664	-2.27906	0.022664	45	15	0.022041
110.202	1232.000	598.0000	197.0000	-2.39856	0.016460	-2.39856	0.016460	45	15	0.015709
110.605	1227.000	603.0000	192.0000	-2.48392	0.012995	-2.48392	0.012995	45	15	0.012206
111.007	1228.000	602.0000	193.0000	-2.46684	0.013631	-2.46684	0.013631	45	15	0.012847
111.409	1257.000	573.0000	222.0000	-1.97177	0.048637	-1.97177	0.048637	45	15	0.048878
111.811	1278.000	552.0000	243.0000	-1.61326	0.106688	-1.61326	0.106688	45	15	0.109124

$p_{cum} = 6.347E-12 < p_B$

$p_{cum} = 7.828E-11 < p_B$

2. Refraction

Results of statistical analysis of distinctions between preparations
by means of Mann-Whitney U-test

“lyd” re “K”

cm⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
117.844	276.0000	189.0000	69.0000	1.804296	0.071186	1.804296	0.071186	15	15	0.074204
118.246	284.0000	181.0000	61.0000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
118.649	286.0000	179.0000	59.0000	2.219077	0.026482	2.219077	0.026482	15	15	0.026354
119.051	292.0000	173.0000	53.0000	2.467945	0.013590	2.467945	0.013590	15	15	0.012799
119.453	293.0000	172.0000	52.0000	2.509423	0.012093	2.509423	0.012093	15	15	0.011256
119.855	293.0000	172.0000	52.0000	2.509423	0.012093	2.509423	0.012093	15	15	0.011256
120.257	293.0000	172.0000	52.0000	2.509423	0.012093	2.509423	0.012093	15	15	0.011256

$p_{cum} = 5.268E-13 < p_B$

“euf” re “K” – no

“anlg” re “K”

cm⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
12.8704	278.0000	187.0000	67.00000	1.887252	0.059127	1.887252	0.059127	15	15	0.061279
13.2726	283.0000	182.0000	62.00000	2.094642	0.036204	2.094642	0.036204	15	15	0.036718
13.6748	282.0000	183.0000	63.00000	2.053164	0.040057	2.053164	0.040057	15	15	0.040840
14.077	283.0000	182.0000	62.00000	2.094642	0.036204	2.094642	0.036204	15	15	0.036718
14.4792	286.0000	179.0000	59.00000	2.219077	0.026482	2.219077	0.026482	15	15	0.026354
14.8814	286.0000	179.0000	59.00000	2.219077	0.026482	2.219077	0.026482	15	15	0.026354
15.2836	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
15.6858	282.0000	183.0000	63.00000	2.053164	0.040057	2.053164	0.040057	15	15	0.040840
16.088	283.0000	182.0000	62.00000	2.094642	0.036204	2.094642	0.036204	15	15	0.036718
16.4901	283.0000	182.0000	62.00000	2.094642	0.036204	2.094642	0.036204	15	15	0.036718
16.8923	283.5000	181.5000	61.50000	2.115381	0.034398	2.115617	0.034378	15	15	0.032944
17.2945	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
17.6967	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496

18.0989	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
18.5011	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
18.9033	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
19.3055	286.0000	179.0000	59.00000	2.219077	0.026482	2.219077	0.026482	15	15	0.026354
19.7077	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
20.1099	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
20.5121	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
20.9143	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
21.3165	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
21.7187	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
22.1209	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
22.5231	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
22.9253	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
23.3275	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
23.7297	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
24.1319	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
24.5341	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
24.9363	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
25.3385	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
25.7407	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
26.1429	285.0000	180.0000	60.00000	2.177599	0.029437	2.177841	0.029419	15	15	0.029496
26.5451	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
26.9473	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
27.3495	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
27.7517	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
28.1539	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
28.5561	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
28.9583	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
29.3605	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
29.7627	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
30.1649	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
30.5671	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
30.9693	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
31.3715	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
31.7737	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
32.1759	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
32.5781	284.5000	180.5000	60.50000	2.156860	0.031017	2.157099	0.030999	15	15	0.029496
32.9803	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
33.3825	284.5000	180.5000	60.50000	2.156860	0.031017	2.157099	0.030999	15	15	0.029496
33.7847	284.5000	180.5000	60.50000	2.156860	0.031017	2.157099	0.030999	15	15	0.029496
34.1869	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
34.5891	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
34.9913	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
35.3935	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
35.7957	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944

36.1979	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
36.6001	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
37.0023	284.0000	181.0000	61.00000	2.136120	0.032670	2.136120	0.032670	15	15	0.032944
37.4045	282.0000	183.0000	63.00000	2.053164	0.040057	2.053164	0.040057	15	15	0.040840
37.8067	281.0000	184.0000	64.00000	2.011686	0.044254	2.011686	0.044254	15	15	0.045334
	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
118.649	275.0000	190.0000	70.00000	1.762818	0.077932	1.762818	0.077932	15	15	0.081429
119.051	281.0000	184.0000	64.00000	2.011686	0.044254	2.011686	0.044254	15	15	0.045334
119.453	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
119.855	285.0000	180.0000	60.00000	2.177599	0.029437	2.177599	0.029437	15	15	0.029496
120.257	286.0000	179.0000	59.00000	2.219077	0.026482	2.219077	0.026482	15	15	0.026354

$p_{cum} = 2.302E-93 < p_B$

$p_{cum} = 1.039E-06 < p_B$

“All set of preparations” *re* “K”

cm⁻¹	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
16.088	1485.000	345.0000	225.0000	1.920553	0.054789	1.920553	0.054789	45	15	0.055263
16.4901	1488.000	342.0000	222.0000	1.971768	0.048637	1.971768	0.048637	45	15	0.048878
16.8923	1488.500	341.5000	221.5000	1.980304	0.047670	1.980331	0.047667	45	15	0.046889
17.2945	1489.000	341.0000	221.0000	1.988840	0.046720	1.988840	0.046720	45	15	0.046889
17.6967	1486.000	344.0000	224.0000	1.937625	0.052670	1.937625	0.052670	45	15	0.053063
	Rank Sum	Rank Sum	U	Z	p-level	Z	p-level	Valid N	Valid N	2*1sided
118.649	1476.000	354.0000	234.0000	1.766909	0.077244	1.766909	0.077244	45	15	0.078583
119.051	1491.000	339.0000	219.0000	2.022983	0.043076	2.023011	0.043073	45	15	0.043111
119.453	1493.000	337.0000	217.0000	2.057126	0.039675	2.057126	0.039675	45	15	0.039587
119.855	1488.000	342.0000	222.0000	1.971768	0.048637	1.971768	0.048637	45	15	0.048878
120.257	1492.000	338.0000	218.0000	2.040054	0.041346	2.040054	0.041346	45	15	0.041318

$p_{cum} = 1.075E-4 < p_B$

$p_{cum} = 3.447E-06 < p_B$