

AKREDITACIJA
Tranzicija odgovornosti u proizvodnji hrane
Mr Dragan Pušara

ATC
AKREDITACIONO TELO SRBIJE

- GLOBALNA POLITIKA
- PRE GATE & POST GATE PRISTUP
- SITUACIJA U SRBIJI
- EKONOMSKI EFEKTI USKLAĐIVANJA
- PERSPEKTIVA AKREDITACIJE U SISTEMU KVALITETA I BEZBEDNOSTI HRANE

ATC Akreditaciono telo Srbije

Bezbednost hrane: Važnija EC Regulatoriva

- **CAC: SPS Agreem.**
- **WTO: TBT Agreem.**
- **CAC: Int. Code of Practice – General Principles of Hygiene Rep.1-69; Rev.3-97, Amd.99**
- **The Hygiene Regulation EC No.852/2004**
- **General Food Law EC No.178/2002 (Jan.,28.02) (Amd. EC No.1642, July,22.03)**

PROIZVODNJA HRANE

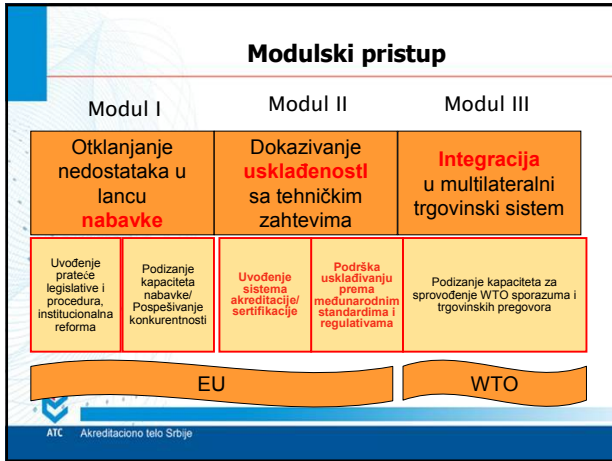
- 600 mlrd.€ - out/god. (15% ukup.izlaza EU)
- 2.6 mil. zaposlenih (30% m/s preduzeća)

POLJOPRIVREDA

- 220 mlrd.€ - out/god.
- 7.5 mil. zaposlenih
- 50 mlrd. € izvoz

ATC Akreditaciono telo Srbije





TEHNIČKE BARIJERE TRGOVINE

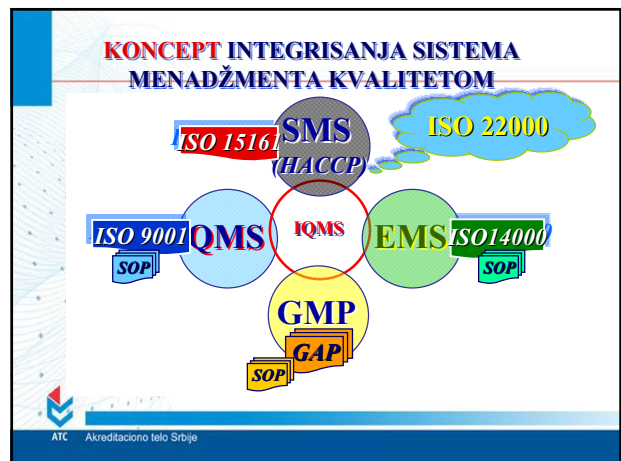
Primer 1.

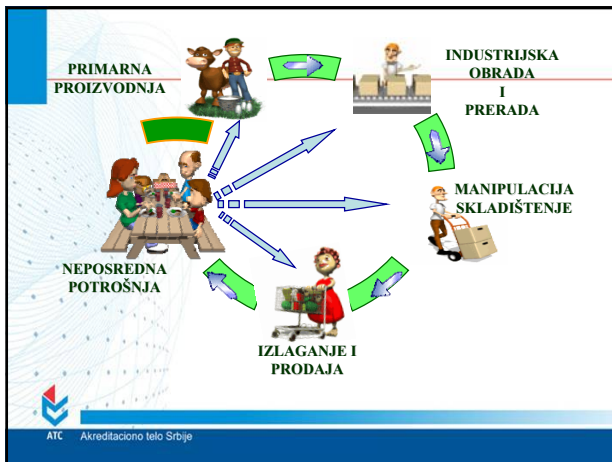
- Neprihvatanje rezultata testiranja od strane nacionalnih laboratorija koje nisu akreditovane.
- Skupo retestiranje proizvoda u laboratorijama zemalja uvoznica.
- Neprihvatanje oznake sertifikata izdatog od strane zemlje iz koje se izvozi.
- Nametanje posebnih uslova za pakovanje i obeležavanje.

ATC Akreditaciono telo Srbije

FOREIGN PLANT REVIEW FORM (reverse)	REVIEW DATE 1/17/02	ESTABLISHMENT NO. AND NAME Est. 10 - Vrbovec, Croatia	CITY Vrbovec COUNTRY Croatia
NAME OF REVIEWER Dr. Judd Giezertanner	NAME OF FOREIGN OFFICIAL Drs. Nevenka Gasparac, Duro Majurdzic	EVALUATION <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Acceptable/ Review <input type="checkbox"/> Unacceptable	
COMMENTS: 82 - Basic HACCP requirements had been met. However, HACCP was not fully implemented.			
FOREIGN PLANT REVIEW FORM (reverse)	REVIEW DATE 1/18/02	ESTABLISHMENT NO. AND NAME Est. 139 - Podravica Danica	CITY Koprivnica COUNTRY Croatia
NAME OF REVIEWER Dr. Judd Giezertanner	NAME OF FOREIGN OFFICIAL Drs. Nevenka Gasparac, Duro Majurdzic	EVALUATION <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Acceptable/ Review <input type="checkbox"/> Unacceptable	
COMMENTS: 82 - Basic HACCP requirements had been met. However, HACCP was not fully implemented.			

ATC Akreditaciono telo Srbije





- ### Pre gate pristup
- Prerequisite programi- preduslovi uvođenja standarda
 - GMP → SOP
 - GHP → SSOP
 - Privatni standardi primarne proizvodnje
 - GLOBALGAP
 - BRC
 - Standardi specifičnih proizvodnji
 - ORGANSKA PROIZVODNJA
 - PROIZVODI SA GEOGRAFSKI POREKLOM
- ATC Akreditaciono telo Srbije

PRIMERI PRE GTATE USLOVA

GMP - 110.20 (a) Zemljište
SPS - 416.2 (a) Zemljište i kontrola štetočina

Zemljište oko fabrike koje je u vlasništvu kompanije mora da se održava na način koji će sprečiti stvaranje nehigijenskih uslova, kao i kontaminaciju i kvarenje hrane.

ATC Akreditaciono telo Srbije

GMP - 110.20 (b) Konstrukcija i izgradnja objekata

SPS - 416.2 (b) Građevinski objekti

Svi zidovi, podovi i plafoni unutar fabrike moraju biti izgrađeni od izdržljivog materijala nepropusnog za vlagu i moraju da se održavaju u uslovima koji neće dovesti do kontaminacije i kvarenja proizvoda ili do stvaranja nehigijenskih uslova sredine.

ATC Akreditaciono telo Srbije

DNEVNI MONITORING STANJA KRUGA I OBJEKATA Datum: 06. 03. 2006

INSTRUKCIJE: Vizuelno proveriti svaki prostor i utvrditi stanje higijene osoblja kao: USAGLAŠENO (U) ili NEUSAGLAŠENO (N).
U slučaju nesaglasnosti zabilježiti preporučene korektivne mere.

SMENA: III Nadzor izvršio: *Geno Lanić* Vreme izvršenog nadzora: Podatak o vremenu: 22:15 Punde 4 iz: 02:00

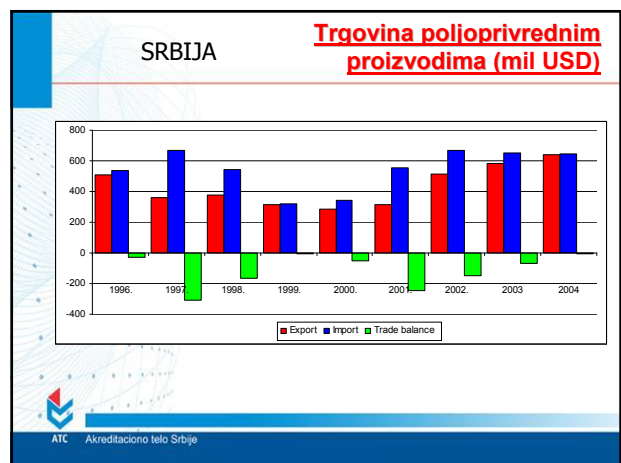
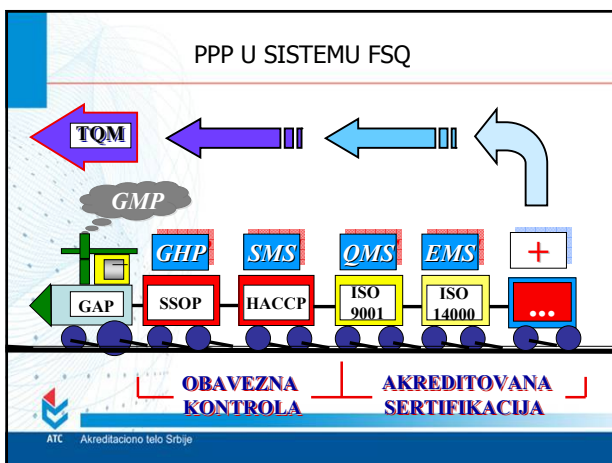
Red. br.	Postaja	Period nadzora	Nivo		Korektivne mere
			U	N	
1	STANJE I HIGIJENA KRUGA POGONA	podatak o vremenu			
2	STANJE I HIGIJENA PRIZANICE	podatak o vremenu			
3	STANJE I HIGIJENA KOTLARнице	podatak o vremenu			
4	STANJE I HIGIJENA FANABA	podatak o vremenu			
5	STANJE I HIGIJENA ASFALNIH POVRŠINA	podatak o vremenu			
6	STANJE ZELENIH I ČISTENIH POVRŠINA	podatak o vremenu			
7	STANJE OKOLNE POKOJA	podatak o vremenu			
8	HIGIJENA PARKINGI PROMOTORA	podatak o vremenu			
9	STANJE I HIGIJENA PERIFERICE KAMIONA I SKAPALA	podatak o vremenu			
10	STANJE I HIGIJENA KONTEJNERA ZA KOPFIKAT	podatak o vremenu			
11	STANJE I HIGIJENA KONTEJNERA ZA SMICE	podatak o vremenu			
12	ŠEŠEFOVNE ERLOVJENE IZ ZAMKE I OBLAĐENE I KONTEJNERI ZA KOPFIKAT	podatak o vremenu			

ATC Akreditaciono telo Srbije

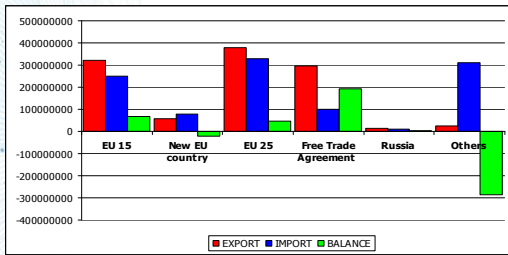
Post gate pristup

- Analiza rizika- sektor specifična
-proizvod specifična
OSNOV RADA INSPEK. SLUŽBI
- Sistemi akreditovanih laboratorija
- Kontrola procesa – HACCP & QMS- akreditovane org
- Labeling

ATC Akreditaciono telo Srbije



Trgovina poljoprivrednim proizvodima (mil USD)



Postepeno ukidanje carina

Code	Description	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8
31	Pre-processed breeding pigs	80	80	0	0	0	0	0	0
32	Live pigs, other than those for breeding	80	80	0	0	0	0	0	0
33	Development and parent female chicks of	80	80	0	0	0	0	0	0
34	Live turkeys, for breeding, weighing up to	80	80	0	0	0	0	0	0
35	Live turkeys, other than for breeding, weigh	80	80	0	0	0	0	0	0
36	Live geese, for breeding, weighing up to	80	80	0	0	0	0	0	0
37	Live geese, other than for breeding, weigh	80	80	0	0	0	0	0	0
38	Live ducks, for breeding	80	80	0	0	0	0	0	0
39	Live ducks and geese, both, for breeding	80	80	0	0	0	0	0	0
40	Live ducks and geese, both, other than	80	80	0	0	0	0	0	0
41	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
42	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
43	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
44	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
45	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
46	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
47	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
48	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
49	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
50	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
51	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
52	Live birds of the species genus domestic	80	80	0	0	0	0	0	0
53	Live domestic rabbits	80	80	0	0	0	0	0	0
54	Live domestic rabbits	80	80	0	0	0	0	0	0
55	Live domestic rabbits	80	80	0	0	0	0	0	0
56	Live domestic rabbits	80	80	0	0	0	0	0	0
57	Live domestic rabbits	80	80	0	0	0	0	0	0
58	Live domestic rabbits	80	80	0	0	0	0	0	0
59	Live domestic rabbits	80	80	0	0	0	0	0	0
60	Live domestic rabbits	80	80	0	0	0	0	0	0
61	Live domestic rabbits	80	80	0	0	0	0	0	0
62	Live domestic rabbits	80	80	0	0	0	0	0	0
63	Live domestic rabbits	80	80	0	0	0	0	0	0
64	Live domestic rabbits	80	80	0	0	0	0	0	0
65	Live domestic rabbits	80	80	0	0	0	0	0	0
66	Live domestic rabbits	80	80	0	0	0	0	0	0
67	Live domestic rabbits	80	80	0	0	0	0	0	0
68	Live domestic rabbits	80	80	0	0	0	0	0	0
69	Live domestic rabbits	80	80	0	0	0	0	0	0
70	Live domestic rabbits	80	80	0	0	0	0	0	0
71	Live domestic rabbits	80	80	0	0	0	0	0	0
72	Live domestic rabbits	80	80	0	0	0	0	0	0
73	Live domestic rabbits	80	80	0	0	0	0	0	0
74	Live domestic rabbits	80	80	0	0	0	0	0	0
75	Live domestic rabbits	80	80	0	0	0	0	0	0
76	Live domestic rabbits	80	80	0	0	0	0	0	0
77	Live domestic rabbits	80	80	0	0	0	0	0	0
78	Live domestic rabbits	80	80	0	0	0	0	0	0
79	Live domestic rabbits	80	80	0	0	0	0	0	0
80	Live domestic rabbits	80	80	0	0	0	0	0	0

PRELAZAK SA MODULA 3 NA MODULE 2 1

TREKUTNO STANJE ??????
 ZSN, PRINCIP ATLETICARA
 JASNI ZAHTEVI
 Zakon o bezbednosti hrane- POST GATE
 Agencija za bezbednost hrane
 Izrada sektorskih analiza rizika
 Reforma inspekcijskog pristupa – Roterdamska luka
 Izrada pravilnika – PRE GATE

UČINJENO- MODUL 2

DONETI AFIRMATIVNI ZAKONI

ZAKON O VETERINI

(korelacija sa GFL i HP 852, 853 i 854
 HACCP I AKREDITACIJA – MANDATORNI

ZAKON O SEMENU I SADNOM MATERIJALU

(akreditacija mandatorna)

STRATEGIJA BEZBEDNOSTI HRANE

PROGRAM MPŠV 2004- 2006 HACCP`QMS ~ 350 KOMPANIJA

PRIVREDNO DRUŠTVO/ AKTIVNOST	TIP PRERAD E	DOBRE NI ZNOS	TRAŽENA SREDSTVA ZA	PROIZVODNJA
"VELO" AD	Hladnjača	525,840.00	Za uvođenje i troškove sertifikacije HACCP	duboko smrznuto povrće, grašak i boranija 2000 t, pored toga proizvode i : kartof, paprika, šargarepa, krompir, paštrnak, porastaj, keleraba i brokole.
"DOMEPREKS" ZDOO	Hladnjača	800,000.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	grašak 4-30, boranija 840, šargarepa-290, paprika-660, spanać-480, crni luk-300, kukuruz-1000, paštrnak-100, celer-1100.
"DELTA FANGI" DDOO	prerada pečurki	639,200.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	prerada pečurki
"JUGPROH" DDOO	prerada voća i povrća	380,800.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	
"MAKNI" DDOO	Hladnjača, pečurke	800,000.00	Za troškove uvođenja i sertifikacije HACCP	Prerada pečurki
STR"ŠALOVIĆ"	prerada voća i povrća	292,400.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	Prerada pečurki, iskorisćenost kapaciteta 100%
"DELICATES SPICES & FERRES" DDOO	prerada začinse paprike	217,800.00	Za troškove uvođenja i sertifikacije HACCP	80% od ukupne proizvodnje izvoze na inostrano tržište
"SOLJARI" PROGRES" DDOO	prerada voća i povrća	399,000.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	
"MARTIS COMERCIE" DDOO	prerada začinse paprike	465,460.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	90% izvoz u zemlje EU
"AGRO-MIBEL" DDOO	proizvodnja semeniskog i merkantilnog krompira	800,000.00	Za troškove uvođenja i sertifikacije HACCP i ISO 9001	Proizvodnja semeniskog i merkantilnog krompira, iskorisćenost kapaciteta 90%
"3 MARK" DDOO	Likovito voće, pečurke	309,600.00	Za troškove uvođenja i sertifikacije HACCP	

Ekonomsko opterećenje CA

SECTOR S	PRODUCT P	MARKET M	REQUIREMENTS TBT/SPS	Type of Test / Certificate	Cost per test (\$C)	Nr. of tests (Xn)	Total cost of testing (\$C*Xn)
EU Netherlands	Hypothetical Country X	Annual exports of: 100,000 tonnes Consignment rate/year: 100,000 Consignment inspection rate: 20% per consignment	Additives and Flavorings in Food	Chemical	25	20,000	500,000
			Cadmium, lead and mercury	Chemical	90	20,000	1,800,000
			Polychlorinated Biphenyls (PCBs) and Terphenyls (PCTs)	Chemical	120	20,000	2,400,000
			Contaminants in Food	Chemical	60	20,000	1,200,000
			Maximum Residue Levels (MRLs)	Chemical	120	20,000	2,400,000
			Packaging: Good Manufacturing Practice, Minimization of packaging	ISO 14000	6,000	50	2,450,000
			Social market requirements	SA 8000	3,000	50	500,000
			Quality related market requirements	ISO 9000	4,000	50	2,050,000
			Environmentally sound production	HACCP (food)	4,000	50	2,050,000
			Total annual cost for 50 companies to export 100 thousand tonnes to The Netherlands is 10,000 consignments				

<p>SECTOR (S):</p> <p>PRODUCT (P): S</p> <p>100,000 tons/year @ \$ 4.00/kg = \$ 400 million</p> <p>Total Number of Exporting Enterprises: 50</p> <p>Minimum Number of Test Samples:</p> <p>MARKET (M): The Netherlands</p> <p>MARKET REQUIREMENTS (TCQ):</p> <p>TESTING</p> <ul style="list-style-type: none"> Maximum Residue Levels (MRLs) in products Cadmium, lead and mercury in food Polychlorinated Biphenyls (PCBs) and Polychlorinated Terphenyls (PCTs) Pathogenic micro-organisms in food and drink products <p>CERTIFICATION:</p> <p>HACCP, ISO 9000, ISO 14000, SA 8000, OHSAS</p>	<table border="1"> <thead> <tr> <th>Laboratory</th> <th>Equipment</th> <th>Expertise</th> <th>Training</th> <th>Accreditation</th> </tr> </thead> <tbody> <tr> <td>Chemical</td> <td>\$500,000</td> <td>\$ 40,000</td> <td>\$40,000</td> <td>\$20,000</td> </tr> <tr> <td>Microbiology</td> <td>\$ 300,000</td> <td>\$ 40,000</td> <td>\$ 40,000</td> <td>\$ 15,000</td> </tr> </tbody> </table> <p>Total cost micro-biological and chemical labs: \$ 1,085,000</p> <table border="1"> <thead> <tr> <th>Metrology Laboratory</th> <th>Equipment</th> <th>Expertise</th> <th>Training</th> <th>Accreditation</th> </tr> </thead> <tbody> <tr> <td>Mass</td> <td>\$200,000</td> <td>\$ 30,000</td> <td>\$30,000</td> <td>\$20,000</td> </tr> <tr> <td>Dimension</td> <td>\$ 250,000</td> <td>\$ 20,000</td> <td>\$ 20,000</td> <td>\$ 15,000</td> </tr> <tr> <td>Temperature</td> <td>\$ 70,000</td> <td>\$15,000</td> <td>\$ 10,000</td> <td>\$ 10,000</td> </tr> <tr> <td>Pressure</td> <td>\$ 90,000</td> <td>\$ 15,000</td> <td>\$ 15,000</td> <td>\$ 10,000</td> </tr> </tbody> </table> <p>Total cost metrology/calibration labs: \$ 1,030,000</p> <p>Environmental conditioning of a laboratories @ \$ 100,000: \$ 200,000</p> <p>Cost for standards services, ISO 9000 and ISO 14000 advisory capabilities: \$ 300,000</p> <p>Cost for HACCP and SA 8000 advisory capabilities: \$ 300,000</p> <p>Cost for calibration per enterprise @ \$ 3,000/annually: \$ 150,000</p> <p>Cost for setting up required systems @ \$ 50,000/annually: \$ 2,500,000</p> <p>GRAND TOTAL TCB INVESTMENT: Total \$ 5,415,000</p> <p>GRAND TOTAL TCB INVESTMENT MAINTENANCE (10 %) : annual \$ 542,000</p>	Laboratory	Equipment	Expertise	Training	Accreditation	Chemical	\$500,000	\$ 40,000	\$40,000	\$20,000	Microbiology	\$ 300,000	\$ 40,000	\$ 40,000	\$ 15,000	Metrology Laboratory	Equipment	Expertise	Training	Accreditation	Mass	\$200,000	\$ 30,000	\$30,000	\$20,000	Dimension	\$ 250,000	\$ 20,000	\$ 20,000	\$ 15,000	Temperature	\$ 70,000	\$15,000	\$ 10,000	\$ 10,000	Pressure	\$ 90,000	\$ 15,000	\$ 15,000	\$ 10,000
Laboratory	Equipment	Expertise	Training	Accreditation																																					
Chemical	\$500,000	\$ 40,000	\$40,000	\$20,000																																					
Microbiology	\$ 300,000	\$ 40,000	\$ 40,000	\$ 15,000																																					
Metrology Laboratory	Equipment	Expertise	Training	Accreditation																																					
Mass	\$200,000	\$ 30,000	\$30,000	\$20,000																																					
Dimension	\$ 250,000	\$ 20,000	\$ 20,000	\$ 15,000																																					
Temperature	\$ 70,000	\$15,000	\$ 10,000	\$ 10,000																																					
Pressure	\$ 90,000	\$ 15,000	\$ 15,000	\$ 10,000																																					

Conformity Cost:

3.8% of total market value- EU

Trenutno opterećenje u Srbiji 5-7%

AKREDITACIJA – KLJUČAN MECHANIZAM- JASNA PERSPEKTIVA



Akreditaciono telo Srbije

VIZIJA ATS-a

PRIMARNA SIROVINA	SERTIF. SADNI MATERIJAL CODEX ALIMENTARIUS	LEGISLATIVA	AKREDITOVANA ISPITNA LABORATORIJA
PRIMARNA PROIZVODNJA	GAP BRC	LEGISLATIVA KOMERCIJALNA KATEGORIJA	AKREDITOVANE SERTIFIKAC. ORGANIZACIJE
PROCESNA INDUSTRIJA	GMP, HACCP, QMS, EMS	LEGISLATIVA KOMERCIJALNA KATEGORIJA	AKREDITOVANE SERTIFIKAC. ORGANIZACIJE
DODATA VREDNOST PROIZVODA	ORGANSKA PROIZVODNJA GEOGRAFSKO POREKLO	KOMERCIJALNA KATEGORIJA	AKREDITOVANE SERTIFIKAC. ORGANIZACIJE
FINALNO ISPITIVANJE PROIZVODA		LEGISLATIVA	AKREDITOVANA ISPITNA LABORATORIJA

USAGLAŠENO TRŽIŠTE SRBIJE



Akreditaciono telo Srbije

ATS i zainteresovane strane

Pouzdan partner privrede i države na poslovima kontinuiranog unapređenja konkurentnosti domaćeg proizvoda i garant zaštite potrošača.....

i jedno pitanje za Vas....

DA LI RADITE SA AKREDITOVANIM
LABARATORIJAMA I AKREDITOVANIM
SERTIFIKACIONIM KUĆAMA KOD NACIONALNOG
AKREDITACIONOG TELA????



Akreditaciono telo Srbije

proverite....

www.ats.rs

HVALA NA PAŽNJI!!!!!!



Akreditaciono telo Srbije