



***CERTIGUS***

Module for the certification  
of seeds in iGus

[www.semware.fr](http://www.semware.fr)

# *Certification today*

- The monitoring of seed certification and decertification is a heavy and mandatory task.
- Certification tasks are performed not only for manufacturing but also for incoming and outgoing stocks.
- The software that manages seed certification is isolated from the rest of the Information System.
- Manual data re-entry links manufacturing and certification /decertification, which sometimes results in penalizing errors.
- Certification is a part of the seed station image in the seed environment (contract givers, seed certification agencies).

# *Objectives of CERTIGUS*

- Get maximum linkage between iGus and certification tasks in order to avoid re-entering data and to help seed certification agents in the best possible way.
- Integrate certification tasks with sensitive areas: initial receptions, manufacturing orders, deliveries.
- Federate certification and realisation of manufacturing orders.
- Manage certificates and stocks of certificates.

# *Objectives of CERTIGUS*

- Interface with seed certification agencies.
- Upstream: manage the codification data of seed certification agencies.
- Downstream: generate certification/decertification regular returns.
- Downstream: easily generate annual returns (certified/not certified/ downgraded carry-over batches).

# *Objects of CERTIGUS*

## Certificates :

- Stocks of certificates.
- Notion of batch of certificates.
- Batch movements.
- Reception.
- Destruction.



# ***Batch of certificates/stocks***

- Notion of « batch of certificates ».
- A batch of certificates is made of 1 to N rolls of certificates belonging to the same series.
- Stocks of certificates.





*Every warehousing operation  
is related to a movement*

Monitoring of certification movements

Family of LP  Line  Product  Nature  Stage  Cultiv\*

Article  Treatment group  Phys. qty >=

Inner batch  Ext. batch  Official batch  Type of batch  Between  And

Choice  Action  Gener\*  Comp.  Caliber  Trade dest  Process  Carry-over  Year

☐ All ☐ In stock ☐ Not in stock ☐ All ☐ Available ☐ QC ☐ All ☐ Certified ☐ Not certified ☒ Campaign

Cert. code  Series  From  To  Since  To  Mvt typ

Certification/Decertification movements

Stage	Article	Designation	Official batch	Inner batch	Unit weight	Certif.	Series	Min N°	Max N°	Mvt type	Mvt qty	Cert. weight	Typ Op	Modified on
SC	TS0488	ACALOU R1 CELEST GOLD 25 K	F0491H067825	TS067825	25,0	116	AG	1022	973	CNSCER	50,00	1250,00	011	29/10/14 09:57
SC	TS0488	ACALOU R1 CELEST GOLD 25 K	F0491H067825	TS067825	25,0	116	AG	1022	973	CNSCER	-50,00	-1250,00	011	29/10/14 10:00
SC	TS0488	ACALOU R1 CELEST GOLD 25 K	F0491H067825	TS067825	25,0	116	AG	1022	973	CNSCER	50,00	1250,00	011	29/10/14 10:00
SC	TS0488	ACALOU R1 CELEST GOLD 25 K	F0491H067825	TS067825	25,0	116	AG	1022	973	ANICER	50,00	1250,00	011	29/10/14 10:00
SC	TS0519	ACALOU R1 CELEST 25KG		TS067165	25,0	116	AG	1001	1001	CNSCER	1,00	25,00	011	05/05/14 16:05
SC	TS0519	ACALOU R1 CELEST 25KG		TS067399	25,0	116	AG	1002	983	CNSCER	20,00	500,00	011	17/06/14 12:01
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H068024	TS068024	25,0	116	AG	1092	1085	CNSCER	8,00	200,00	011	21/01/15 18:14
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855B	TS067856	25,0	116	AG	1082	1073	CNSCER	10,00	250,00	011	31/10/14 12:46
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1072	1063	CNSCER	10,00	250,00	011	31/10/14 12:42
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1082		CNSCER	10,00	250,00	011	31/10/14 12:42
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1072	1063	CNSCER	-10,00	-250,00	011	31/10/14 12:43
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1072	1063	CNSCER	10,00	250,00	011	31/10/14 12:43
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1082		CNSCER	-10,00	-250,00	011	31/10/14 12:43
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1082		CNSCER	10,00	250,00	011	31/10/14 12:43
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1082		CNSCER	-10,00	-250,00	011	31/10/14 12:45
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1072	1063	ANRCER	5,00	125,00	011	31/10/14 17:59
SC	TS0519	ACALOU R1 CELEST 25KG	F0491H067855	TS067855	25,0	116	AG	1072	1063	ANRCER	-5,00	-125,00	011	26/02/18 15:44
SC	AL0004	NAPOLÉON R1 25KG	F1111T231321	ALT66299	25,0	116	AG	1000	1000	CNSCER	1,00	25,00	011	25/04/14 12:12
Total signed											50,00	1250,00		

# ***Destruction of certificates in stock***

**Destruction of certificates**

Certificate code  Certificate designation  Series  Current minimum >=   
Quantity left <=

**Batches of certificates**

Certificate code	Series	Certif. batch N°	Init minimum	Init maximum	Current min
124	HG	00070557	1	1500	1
124	HG	00070558	1501	3000	1551
159	KJ	00070263	5000	9999	5000
168	01	00066635	46	95	96
168	01	00068949	96	145	117
201	AP	00110076	409201	410200	
202	AE	00065122	1	10000	20
202	BC	00068947	1	4000	3989
202	BC	00068948	200001	204000	200001
203	BC	00068942	1	4000	0
203	IA	00070673	1	2000	40
203	IB	00070675	1	-498	1

**Destruction of certificates**

Min N°	Max N°	Qty ruined	Reason	Date
2951	2902	50	Water	15/05/18 11:01

# *Functions of CERTIGUS*

- Certify batches within the context of the manufacturing order:
  - Prepare the printing.
  - Link a batch of seeds and a (or N) range of labels.
  - Decertify upstream batches if they have been certified.

## *Certification coupled to orders*

- IGus certifies batches.
- But the certification is performed in the context of manufacturing orders.
- Advantages:
  - Certify N batches in one go.
  - Couple certification and factory work together.

Certification/Decertification - Consultation

MO

Status  Fabrication close

Process  Ensachage

BL

Article

Line of product

Generation

Ordered

Unit

Fcst start

Fcst end

Line

Destined for

Cert. type

O.I.B. ☐

A.R.T.B. ☐

Certif.

OECD\_Cert ☐

Typ decert op\*

Typ cert\* op\*

Certification normale

MO without request ☐

MO under certification ☐

Search

See MO

To be realised

Inner batch	Official batch	Cal.	Co.	Gen*	To be prod.	Prod. qty	Unit wgt	Fcst wgt	Total qty of req.	Req. in progress	To be cert.	Cert.
TS039781	F0491P039561	00	TS	G1	1	58	14,6	14,6			<input checked="" type="checkbox"/>	<input type="checkbox"/>
											<input type="checkbox"/>	<input type="checkbox"/>
											<input type="checkbox"/>	<input type="checkbox"/>

Additional request ☐

Generate

Edition request

Certification

Decertification

Request

Req.Id.

Fcst dte

Status

Qty request.

Modif dte

User

Print area

Zone code	Designation of the zone	Value

Stock of certif.

Print

Save



# *Printing certificates*

- At the present time, the A.R. reenters the information prepared by CERT.
- Direct interface with the print server is being prepared (easy to acheive).

# *Certification*

- The input of the use of certificates is driven
- Consistency controls
- Segments do not overlay
- The operation code is suggested (011...)
- If there are errors during the edition: CERT helps you with any additional query
- The use of certificates in the context of MOs creates one (to N) certification movement
- Cancellations (printing/realisation) are traced too
  - CNSCER: certification
  - ANICER: cancellation during the printing
  - ANRCER: cancellation during the realisation

## *Type of operation : certification/decertification*

- The t.op is suggested by iGus. It can be changed.
- The t.op is computed when dealing with certification.
  - Packaging
    - There is a certified upstream batch
      - certified in 026 → 016
      - Not certified in 026 → 011
    - There is no certified upstream batch
      - → 011 (except OECD copy → 013)
  - Transfer and certification type = 'TEMPO' → 105



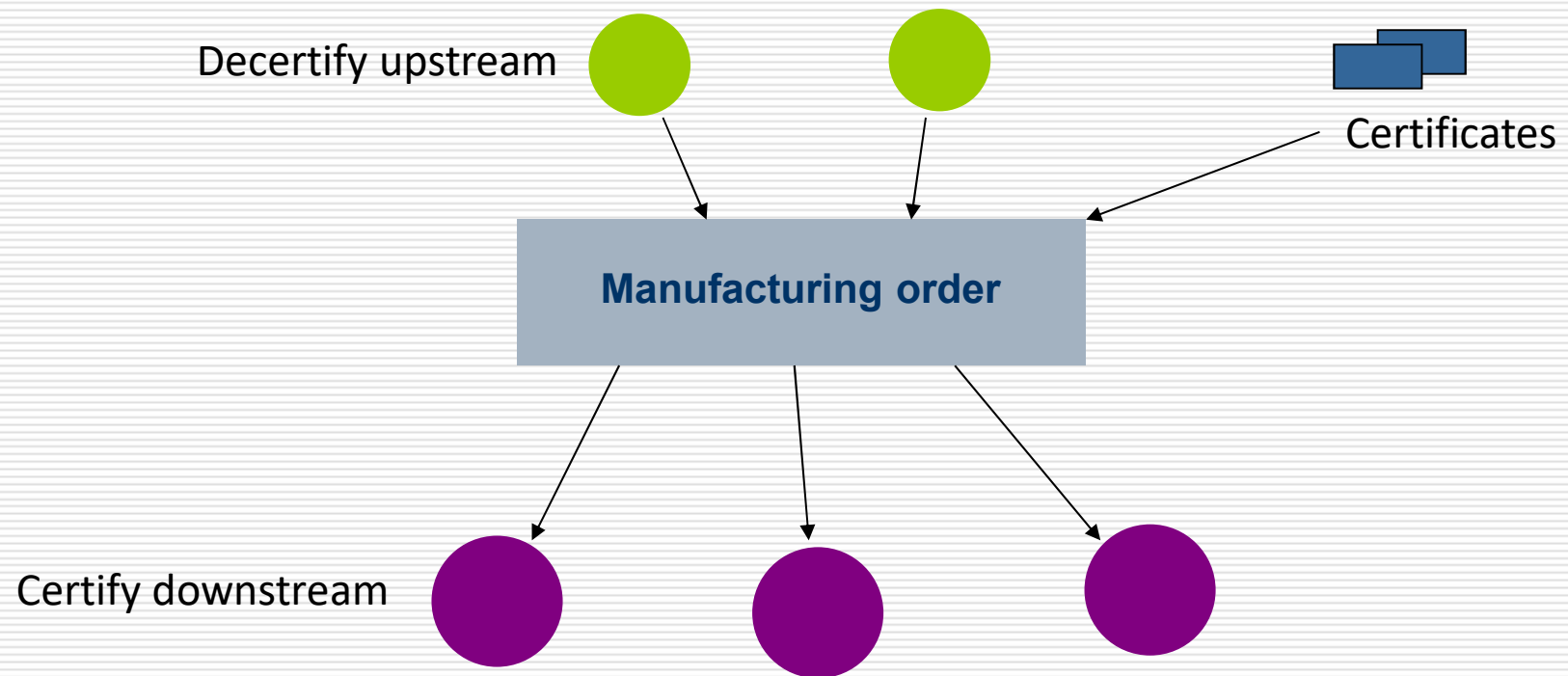
## *Type of operation : certification / decertification*

- The t.op is computed when dealing with decertification related to MOs
  - T.Certif = 'TEMPO' → 115
  - Others
    - Production batch (t.lot.ext ='CONTRACT')
      - Change of generation → 022
      - Otherwise → 021
    - Purchase batch (t.lot.ext 'PURCHASE%')
      - Change of generation → 024
      - Otherwise → 023

# ***Certified batch / type of certification***

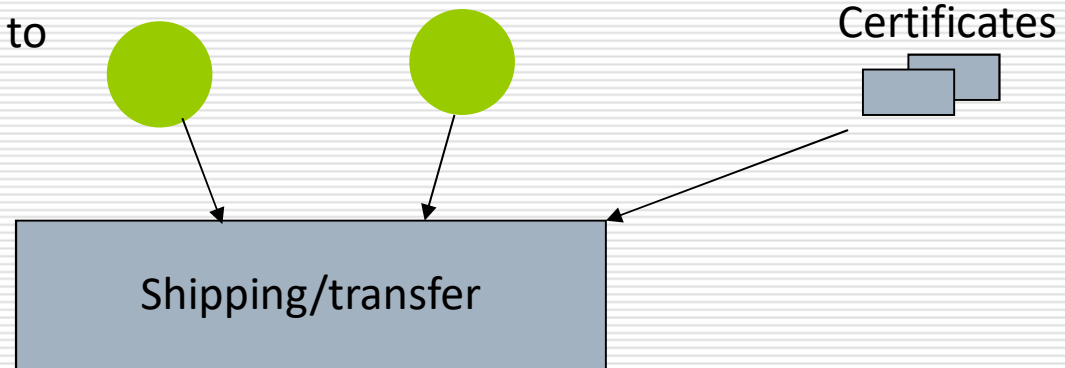
- The batch is marked as certified.
- If a certified batch is re-bagged, the decertification movement does not change anything in its being certified.
- Yet, it will be possible to decertify the whole batch (see Certified/decertified batches).

# ***Certification and order***



# ***Certification and shipping***

Certify the batches to  
be shipped



# ***Certification and realisation***

- CertiGus makes sure that the realisation is consistent with the certification.
- What you certify is what you have actually realised.

# *Certification and initial reception*

- Is the batch certified?
- What type of certification?

Initial reception - Consultation

Batch

Article	TS0126	BIENSUR R1 GAUCHO+LATITUDE 25KG	Unit	25K	Line	BLEDUR	Family	CEREALES	SEMENCE
Ext. B.	LIBRE	TX555MR	Batch	TS068629	Offic. N°	B	Order	0094093	
Prod. year	2015	Origin	FRA	Generation	R1	Comp.	TS	Site	TST
Doubt PV	<input type="checkbox"/>	Doubt germination	<input type="checkbox"/>	Doubt Biotech	<input type="checkbox"/>	Sterility		UW	25
Genetic		Cultivation		Batch tested		Sampling		Forecast	
TKV		Caliber		Tray		Doses/Pal		Prévu le	
Method						Treatment	000109		
Certified	<input checked="" type="checkbox"/>	Certification type	CE	Action key	CC	Classif.		Org. prod.	<input type="checkbox"/>
						Note	<input type="checkbox"/>		

Quality Create  
Logistics Search  
New batch Clear

# Start procedure: certified batch transaction

- In Certigus, you must begin by marking the carry-over batches as certified.

Batch certification and decertification - ACALOU G3 CELEST GOLD 25KG (TS0067)

Family LP: \_\_\_\_\_ Line: \_\_\_\_\_ Product: \_\_\_\_\_ Nature: pf \_\_\_\_\_ Stage: \_\_\_\_\_ Cultiv\*: \_\_\_\_\_  
Article: \_\_\_\_\_ Treatment group: \_\_\_\_\_ Phys qty >=: \_\_\_\_\_  
Inner batch: \_\_\_\_\_ Ext. batch: \_\_\_\_\_ Official batch: \_\_\_\_\_ Batch type: **Certified** Between: \_\_\_\_\_ And: \_\_\_\_\_  
Choice: \_\_\_\_\_ Action: \_\_\_\_\_ Gener\*: \_\_\_\_\_ Comp.: \_\_\_\_\_ Caliber: \_\_\_\_\_ Trade dest: \_\_\_\_\_ Process: \_\_\_\_\_ Carry-over: \_\_\_\_\_ Year: \_\_\_\_\_  
☐ All ☐ In stock ☐ Not in stock ☐ All ☐ Available ☐ QC ☐ All ☐ Certified ☐ Not certified ☒ Campaign

Selected batches

Official batch	Article	Article designation	Inner batch	Left Creat	MO	Created	Process	Origin	Contract	Ctry. dest.	Sel.	Certif.	Type of certification	Cert/Decert op. type
F2544T112233	TS0067	ACALOU G3 CELEST GOLD 25K	TS068170	20	0091522	17/04/15	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F2544T112233	TS0067	ACALOU G3 CELEST GOLD 25K	TS068169	22	0091521	17/04/15	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F1234-T-56	TS0067	ACALOU G3 CELEST GOLD 25K	TS068202	12	0091645	27/04/15	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F1234-T-56	TS0067	ACALOU G3 CELEST GOLD 25K	TS068203	8	0091646	27/04/15	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F0967-T-000009	TS0067	ACALOU G3 CELEST GOLD 25K	TS067035	6925,2	0087493	19/02/14	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F0154G123456	TS0067	ACALOU G3 CELEST GOLD 25K	TS066334	636,6	0085173	22/10/13	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F4565R8884444	TS0069	ACALOU G4 CELEST NET 25KG	TS068885	2000	0096738	12/02/16	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F1234H252525	TS0069	ACALOU G4 CELEST NET 25KG	TS067458	64,24	0088539	13/06/14	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F0653T123456	TS0069	ACALOU G4 CELEST NET 25KG	TS067623	98	0089020	11/08/14	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	
F0491H067671A03	TS0069	ACALOU G4 CELEST NET 25KG	TS067674	48	0089086	28/08/14	ENS	FRA			<input type="checkbox"/>	<input type="checkbox"/>		023
F0298Z78213	TS0069	ACALOU G4 CELEST NET 25KG	TS065223	80	0082726	07/05/13	INI	FRA			<input type="checkbox"/>	<input type="checkbox"/>		
F2365Z256666	TS1588	ACALOU G4 REDIGO 25KG	TS067894	300	0089813	27/11/14	INI	FRA			<input type="checkbox"/>	<input type="checkbox"/>		
F2365Z256666	TS1588	ACALOU G4 REDIGO 25KG	TS067893	482,44	0089812	27/11/14	INI	FRA			<input type="checkbox"/>	<input type="checkbox"/>		
F1564F455646	TS1588	ACALOU G4 REDIGO 25KG	TS068872	20	0096567	04/02/16	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>		
F1254Z123333	TS1588	ACALOU G4 REDIGO 25KG	TS067421	6924,84	0088480	05/06/14	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>		
F1234Z111111	TS1588	ACALOU G4 REDIGO 25KG	TS067912	422	0089904	02/12/14	INI	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>		
F0491987231	TS1588	ACALOU G4 REDIGO 25KG	TS067829	6	0089376	29/10/14	ENS	FRA			<input type="checkbox"/>	<input checked="" type="checkbox"/>	CE	011
F0491987231	TS1588	ACALOU G4 REDIGO 25KG	TS067940	20	0090141	18/12/14	ENS	FRA			<input type="checkbox"/>	<input type="checkbox"/>		
F049198723A01	TS1588	ACALOU G4 REDIGO 25KG	TS067828	20	0089375	29/10/14	ENS	FRA			<input type="checkbox"/>	<input type="checkbox"/>		
F0491Z78213A01	TS1588	ACALOU G4 REDIGO 25KG	TS068718	2	0087600	26/10/15	ENS	FRA			<input type="checkbox"/>	<input type="checkbox"/>		

**CE**

Use the selection buttons to mark batches as certified

Indicate the type of certification

# ***Management of carry-over batches: mass decertification***

- Same principle as when entering certified batches
- The decertification operation code can be computed by Certigus
  - Batch of the agency: 021
  - Otherwise: 023
- Type of movement produced: DECERT



# *Interfaces of certification agencies*

- Test mode/Real mode
- Advanced control of records
- Some products may not have been declared
- Adjustable carry-over period (SN SM)
- File creation

## *Settings*

- Registers
- Station related to the seed certification agency
- Region related to the seed certification agency
- Type of the file sent

# Certification interface

**Certification interface - Consultation**

Header

☒ Test    **Interface Id** TST00000791    **Record code** SN    Between    On 30/06/17 23:59:59    Modif date 09/10/17 10:19  
☐ Real    Family LP    Seed stage    Gener\*  
 Ready for sending    Overall error  
 File name    Date    Create Search

SN Remaining batch

SN batches

Stage	Species	Species sig*	Offic.	Offic. product	Variety design*	Gener*	Offic. batch N°	Cal.	Type	B. Ststor.	Total weight	Total unit Op.	Local off. code	Qty	Art. Unit
PB	034	BLE DUR	1234	0285	BIENSUR	G3	F0679R785636		TA	CE	203,75	Q C	09	815	25K
PB	034	BLE DUR	1234	0404	ISILDUR	G3	F1978W009424AAI		TA	CE	75,00	K C	09	3	25K
SB	034	BLE DUR	1234	0505	ATOUDUR	KK	F1978W000254CAI		TA	CE	25,00	K C	09	1	25K
SB	034	BLE DUR	1234	0447	BABYLONE	KK	F0895W000006C		TA	CE	31,75	Q C	09	127	25K
SB	034	BLE DUR	1234	0285	BIENSUR	KK	F0111V820277A01		TA	CE	102,38	Q C	09	409,5	25K
SB	034	BLE DUR	1234	0285	BIENSUR	KK	F0491A01		TA	CE	3,85	Q C	09	385	KG
SB	034	BLE DUR	1234	0285	BIENSUR	KK	F0491G100008A	00	TA	CE	3,50	Q C	09	14	25K
SB	034	BLE DUR	1234	0285	BIENSUR	KK	F0491P017064A	00	TA	CE	25,00	K C	09	1	25K
SB	034	BLE DUR	1234	0288	JOYAU	KK	F0408G288646A	00	TA	CE	8,75	Q C	09	35	25K
SB	034	BLE DUR	1234	0415	SCULPTUR	KK	F0491V041314	00	TA	CE	3,50	Q C	09	14	25K
SC	034	BLE DUR	1234	0127	ACALOU	R1	F0491H067522	00	BR	CE	51,15	Q C	09	5115	KG
SC	034	BLE DUR	1234	0127	ACALOU	R1	F0491H067555	00	BR	CE	50,00	Q C	09	5000	KG
SC	034	BLE DUR	1234	0447	BABYLONE	R1	F0125R154555		TA	CE	125,00	Q C	09	500	25K
SC	034	BLE DUR	1234	0447	BABYLONE	R1	F0491K055495	00	TA	CE	150,00	Q C	09	600	25K
SC	034	BLE DUR	1234	0447	BABYLONE	R1	F0491K055548B	00	TA	CE	828,00	Q C	09	138	600K
SC	034	BLE DUR	1234	0285	BIENSUR	R1	F0491G100819D	00	TA	CE	5,00	Q C	09	20	25K

Screen action

No report listed    Print    Preview    Create file    Save

# Interrogation of the register

Interrogation du registre GNIS

Critères  
Registre  Feuille  Ligne   
lot GNIS  Lot Externe  Lot Interne  Nouveau Consulter

Identification  
Registre  Feuille  Ligne   
C.Enreg.  C.Operation   
N° Lot Gnis  Lot Gus   
Cat.glob  Generation   
Calibre  Cde Gnis   
Espece   Article   Unité   
Produit   
Pds Total  Unite  Pds Unit  Unité  Dte Modif

Certification / décertification  
Date CL/DL  Type d'opération  Certificat  Premier  Dernier   
Qté Certifiée / Décertifiée  Annulés Impression  Annulés Réalisation  Decert

Report SM / SN / SD  
Etat  Origine

Interfaces  

Interface	Code	Début	Fin	Famille	Stade	Gen	Erreur	Nom du Fichier	Extrait le
TST00000485	CL	01/04/16	30/04/16				<input type="checkbox"/>	CL049104.161	22/02/17

# *Editions*

- Editions of interfaces.
- Reports for seed certification agencies : for example, the LT56 LT57 LT58 reports for the Gnis (in France).
- Stocks of certificates.

# *Advantages*

- **Save time** and increase reliability during the realisation of manufacturing orders.
- **Facilitate organization** by distributing tasks among operators.
- Increase the responsiveness of the pilot system by using reliable and up-to-date data.
- Do without specialized PC (except for printing).