SEC (Single European Code)

Document type: User Manual
Version: 1.0
Date: 30.10.2019
Created by: SeBu

Content

Feature description

A Single European Code (SEC) identifies tissues uniquely within the EU.
At *MedITEX*, a SEC can be provided for tissues that are/were present **in the cryo storage**.
When a frozen sample is transferred to e.g. another IVF clinic, the SEC must be passed along and vice-versa (when receiving frozen samples from other clinics).

The [Single European Code](#)consists of
- a donation identification sequence (DIS)
- a product identification sequence (PIS)

Both together end up in the SEC that has a total amount of 40 characters.

Example SEC:

DE 000102 0000012312312 B070200100120180731

A SEC can be defined

- by typing it by hand or scanning a barcode that contains a SEC
- by generating it with a button click (*Automatic generation* must be active)
- by auto-generating it, when freezing cells directly from culture or male laboratory (*Automatic generation* must be active)

A SEC can be defined **for each straw** that contains cells. A straw can have assigned at most **two** SEC:

- Incoming SEC: SEC that was defined by the sending clinic, e.g. a sperm bank
- Outgoing SEC: SEC that is defined by your clinic, e.g. when sending it to another clinic

Settings

Please activate the feature **for each location** in the MedITEX settings under

System > Functions > Automatic ID generation

in order to use the feature all around MedITEX. The settings of a location apply **to the location of the patient**, <u>not</u> to the location of the currently logged-in user. If you do not see any SEC related buttons or grid columns, then your patient is assigned to a location that has the SEC feature disabled.

In the following example, the SEC feature was activated for location *Critex*, using the TE code *012345* and the country code *UK*. The location uses the coding system *Eurocode*, which is used to create SEC records.

TE (Tissue establishment) code:	Unique code that identifies the clinic/location uniquely in the EU
Country code:	ISO normed country code, e.g. Germany = DE
Coding system:	The coding system that should be applied when validating entries

When all settings are valid and you want to *generate* a SEC record manually, these settings are used to create it. If they are unset or not valid, a generation is not possible. In this case, you are forced to enter the SEC manually on your own.

Automatic generation

You can activate the *Automatic generation* of SEC records only, if all mentioned settings are valid.

When the *Automatic generation* is set to active, outgoing SEC records are created automatically, if

- **Semen analysis** is cryopreserved directly from the laboratory
- **Female cells** are cryopreserved directly from the culture.

Accessing the SEC manager

You can enter the **SEC manager** form either

- By using the SEC button in the cryo form

- Or by using the SEC button in the cryo storage

	Cryo ID	# Ooc.	# PN	Status	Storage location	Cl. 1	Cl. 2	For donation	For research	SEC
	229	7		In quarantine				☑	☐	🟢
	166		4	Available	Cryo Tank 5 C 3 a		🟧	☐	☐	🟡
	223		1					☑	☐	🟡

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Generate SEC records

If you decide to let MedITEX generate an outgoing SEC for you, you can make use of the *Generate all* button. This button is <u>not</u> available for creating an incoming SEC, as this SEC must always be given from a sending clinic and hence cannot be created by your clinic.

The button will create an outgoing SEC, according to

- the settings you applied for the location of the patient
- the type of the tissue (sperm, oocyte, PN cells, ovarian tissue or embryos)

In the given example, some PN cells are going to be cryopreserved.
The DIS of the resulting SEC consists of

- the country code (UK = United Kingdom)
- the TE code (01245)
- the internal ID (auto-incrementing per location)

The *PIS* of the resulting SEC consists of

- the coding system (B = Eurocode)
- the code for PN cells (0000062)
- the split number (001 as the cells were cryopreserved into a single straw)
- the expiry date (which is set to 2 years from now by default)

When cryopreserved records are in *history* mode (because they were thawed/destroyed/moved), you are not able to edit or delete them anymore. When there was no SEC created or this cryopreserved record yet, you are still able to create it.

If you decide to enter an (existing) SEC, there is some kind of input validation performed.

Since not all parts of the SEC are valid, you are not able to create or update a SEC.

Scanning

If you have connected a barcode scanner, you can also scan the barcode. The scanned characters will be inserted into the SEC input field. Make sure to click the *Insert* button before performing the scan.

Restrictions

When cryopreserved records were moved to the *history* tab in cryo storage (because they were thawed, destroyed, moved etc.), you are not able to edit or delete them anymore.

In general, when there was no SEC created or this cryopreserved record yet, you are always able to create it. Once it was created, it cannot be changed anymore.

This rule applies for all users except for users having administrator permissions.

Assign SEC to several straws

When cryopreserving tissues, you can define the **number of straws** to freeze them to.

1. If you define a number of straws > 1 and you have already defined an incoming and/or outgoing SEC, the **split numbers** of the SEC records are incremented accordingly to the number of desired straws.
2. If you define a number of straws > 1 and you have <u>not</u> defined any SEC records, nothing happens when saving the cryo record. SEC records will only be created automatically, if the *Automatic generation* feature is enabled for the location of the patient <u>and</u> you are cryopreserving tissues directly from the culture. In this case, an incoming SEC will be created for each straw you have defined. Here, the split number of the SEC of the first straw starts with 001 and the remaining SEC records will obtain a PIS with an incremented split number.

Checking SEC in cryo storage

You can access SEC records either

- out of the cryo record form

or

- out of the cryo storage.

Since the SEC feature is activated for the location of the current patient, you will see a new column on the righthand side of the grid(s), called *SEC*.

The green/orange/grey icons in each row indicate, if the required number of SEC records of this cryo record were defined or not.

- 🟢 Green icon: No origin clinic was defined and an outgoing SEC was defined OR an origin clinic was defined and an incoming SEC was defined
- ⚪ Grey icon: No origin clinic was defined and no incoming/outgoing SEC was defined
- 🟠 Orange icon: An origin clinic was defined, but not incoming SEC was defined

Female cryo storage:

	Cryo ID	# Ooc.	# PN	Status	Storage location	Cl. 1	Cl. 2	For donation	For research	SEC
	229	7		In quarantine				☑	☐	🟢
	166		4	Available	Cryo Tank 5 C 3 a		🟧	☐	☐	🟠
	223		1					☑	☐	⚪

Female cryo storage:

	Cryo ID	Collection date	Cryopreserved on ▽	For research	SEC
	166	07.07.2017	01.10.2019	☐	⚪
	150	13.09.2013	06.09.2016	☐	🟢
	151	13.09.2013	06.09.2016	☐	🟠