# Production Overview

Production is in the EMA Operations functional group and in the SO Business Area. The illustration below provides an overview of the End-to-End Production workflow. This document aims to describe all the tasks involved in the Production function.

**Liquid’s Workflow:**

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# Fermentation KA - Description

The objective of this task is to “...”. It is part of the liquid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/information flow from:

* “Scheduling Ferm/Rec”
* “Release for Tapping”

It provides process/information flow to:

* “Recovery AD”
* “Recovery ACT”
* “Recovery ACD”
* “Recovery BE”
* “Step OK?”

The time used on the task is estimated at “60-240 hours in Fermentation and 8-16 hours to Recovery” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Fermentation FU - Description

The objective of this task is to “...”. It is part of the liquid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes information flow from:

* “Release for Tapping”
* “Flex US/CH”

It provides process/information flow to:

* “Analysis (Fermentation)”
* “Recovery FU”
* “Step OK?”

The time used on the task is estimated at “60-240 hours in Fermentation and 8-16 hours to Recovery” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Step OK? - Description

The objective of this task is to “...”. It is part of the liquid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes information flow from:

* “Fermentation FU”
* “Fermentation KA”
* “Usage Decision Fermentation (No)”

It provides information flow to:

* “Usage Decision Fermentation”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery ACT - Description

The objective of this task is to “...”. It is part of the liquid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process/information flow to:

* “Tankyard”
* “Step OK?”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery ACD - Description

The objective of this task is to “...”. It is part of the liquid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process/information flow to:

* “Tankyard”
* “Step OK?”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery BE - Description

The objective of this task is to “...”. It is part of the liquid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process/information flow to:

* “Tankyard”
* “Step OK?”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery AD - Description

The objective of this task is to “...”. It is part of the liquid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process/information flow to:

* “Tankyard”
* “Step OK?”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery FU - Description

The objective of this task is to “...”. It is part of the liquid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process/information flow from:

* “Fermentation FU”
* “Release for Tapping”
* “Flex US/CH”

It provides process/information flow to:

* “Tankyard”
* “Analysis (Service)”
* “Step OK?”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Step OK? - Description

The objective of this task is to “...”. It is part of the liquid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes information flow from:

* “Recovery ACT”
* “Recovery ACD”
* “Recovery BE”
* “Recovery AD”
* “Recovery FU”
* “DISP (No)”
* “Usage Decision Recovery (No)”

It provides information flow to:

* “Robex Detail Planning Downstream”
* “Usage Decision Recovery”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Flex US/CH - Description

The objective of this task is to “...”. It is part of the liquid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process flow from:

* “Prioritize Capacity”

It provides process/information flow to:

* “Tankyard (process flow)”
* “Fermentation FU”
* “Recovery FU”
* “Tankyard (information flow)”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Tankyard - Description

The objective of this task is to “...”. It is part of the liquid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process/information flow from:

* ”Changes to MPS Needed? (No)”
* “Flex US/CH” (process flow)
* ”Recovery FU”
* ”Recovery ACT”
* ”Recovery ACD”
* ”Recovery BE”
* ”Recovery AD”
* ”Flex US/CH” (information flow)
* ”DISP (Yes)”

It provides “…” flow to:

* “…”

The time used on the task is estimated at “92 days average (1-1000 Days)” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

**Solid’s Workflow:**



# Fermentation KA - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service flow from:

* “Scheduling Ferm/Rec”

It provides process/information flow to:

* “Recovery AD”
* “Recovery ACT”
* “Recovery ACD”
* “Recovery BE”
* “Step OK?”

The time used on the task is estimated at “60-240 hours in Fermentation and 8-16 hours to Recovery” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Fermentation FU - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/information flow from:

* “Scheduling Ferm/Rec”
* “Intercompany US/CH”

It provides process/information flow to:

* “Analysis (Fermentation)”
* “Recovery FU”
* “Step OK?”

The time used on the task is estimated at “60-240 hours in Fermentation and 8-16 hours to Recovery” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Step OK? - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes information flow from:

* “Fermentation FU”
* “Fermentation KA”

It provides information flow to:

* “Usage Decision”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery ACT - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process flow to:

* “Tankyard”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery ACD - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process flow to:

* “Tankyard”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery BE - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process flow to:

* “Tankyard”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery AD - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “ROBEX Detail Planning Downstream”
* “Fermentation KA”

It provides process flow to:

* “Tankyard”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Recovery FU - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process/information flow from:

* “Fermentation FU”
* “Release for Tapping”
* “Flex US/CH”

It provides process/information flow to:

* “Tankyard”
* “SG/BG/MG”
* “Analysis (Service)”
* “Step OK?”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Step OK? - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes information flow from:

* “DISP (No)”

It provides information flow to:

* “Robex Detail Planning Downstream”
* “Usage Decision”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Intercompany US/CH - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes “…” flow from:

* “…”

It provides process/information flow to:

* “Tankyard (process flow)”
* “Fermentation FU”
* “Recovery FU”
* “Tankyard (information flow)”
* ”SG/BG/MG”
* ”Glat”
* ”Pack”
* ”Product Inventory & Robustness Check”
* ”Check Capacity & Capability”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Tankyard - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process/information flow from:

* “Intercompany US/CH” (process flow)
* ”Recovery FU”
* ”Recovery ACT”
* ”Recovery ACD”
* ”Recovery BE”
* ”Recovery AD”
* ”Intercompany US/CH” (information flow)
* ”Usage Decision (Yes)”
* ”DISP (Yes)”

It provides process flow to:

* “Granulation KA”
* “Granulation BA”

The time used on the task is estimated at “92 days average (1-1000 Days)” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Spray - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes “...” flow from:

* “...”

It provides process flow to:

* “Granulation KA”
* “Granulation BA”
* “Analysis (Service)”

The time used on the task is estimated at “24-72 hours” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Granulation KA - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “Scheduling Gran/Spray”
* “Spray”
* “Tankyard”
* “Plan for rework/rad”

It provides process flow to:

* “MG KA”
* “Warehouse (Internal & External)”

The time used on the task is estimated at “0.5-6 days” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Granulation BA - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process flow from:

* “Scheduling Gran/Spray”
* “Spray”
* “Tankyard”
* “Plan for Rework/Rad”

It provides process flow to:

* “MG KA”
* “Warehouse (Internal & External)”

The time used on the task is estimated at “0.5-6 days” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# DISP - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service flow from:

* “...”

The task is a gateway and has two variants, Yes and No.

The yes variant provides information flow to:

* “Import Subcontract”

The no variant provides information flow to:

* “Usage Decision (No)”
* “Plan for Rework/Rad”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# MG KA - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process flow from:

* “Granulation KA”
* “Granulation BA”
* “Warehouse (Internal & External)”

It provides process flow to:

* “Warehouse (Internal & External)”

The time used on the task is estimated at “1-3 days” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# MG - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process/information flow from:

* “Recovery FU”
* “Plan for Rework/Rad”
* “Flex US/CH”

It provides process flow to:

* “Warehouse (Internal & External)”

The time used on the task is estimated at “1-3 days” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# BG - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process/information flow from:

* “Recovery FU”
* “Plan for Rework/Rad”
* “Flex US/CH”

It provides process flow to:

* “Warehouse (Internal & External)”

The time used on the task is estimated at “1-3 days” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# SG - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process/information flow from:

* “Recovery FU”
* “Plan for Rework/Rad”
* “Flex US/CH”

It provides process flow to:

* “Warehouse (Internal & External)”

The time used on the task is estimated at “1-3 days” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Blend KA - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes service/process/information flow from:

* “Create + Plan Blend”
* “Warehouse (Internal & External)”
* “DISP”

It provides “...” flow to:

* “...”

The time used on the task is estimated at “2-12 hours” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# Glat - Description

The objective of this task is to “...”. It is part of the solid workflow and is an event.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes process/information flow from:

* “Warehouse (Internal & External)”
* “DISP”
* “Flex US/CH”

It provides process flow to:

* “Analysis (Service)”

The time used on the task is estimated at “12-24 hours” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”

# DISP - Description

The objective of this task is to “...”. It is part of the solid workflow.

It consists of the following Measurement(s):

* “...”

It delivers the following Service(s):

* “...”

The task has a maturity of “...”.

The task consumes information flow from:

* “Usage Decision (No)”

It provides information flow to:

* “GP BiB”
* “Blend KA”
* “Glat”

The task is a gateway and has two variants, Yes and No.

The yes variant provides information flow to:

* “...”

The no variant provides service flow to:

* “...”

The time used on the task is estimated at “...” with an estimated rework of “...”

The following are the issues or problems that the task has:

* “...”

If you have any questions, comments, changes or need to interact with the accountable of the task, these are the responsible (Novozymes contact acronyms are applied):

* “...”