Pharmaceuticals / PH-05

Plant warehouse: quarantine, release and raw materials

Managing raw materials and finished products by GMP status at a time when production has grown by 30%.

Unreleased raw materials must not reach the production line.

Pharmaceutical production grew by 29.4% in January–May 2026; the 2026 target is UZS 8.5 trillion. As volumes grow, a core GMP requirement is that the quarantine, released and rejected statuses of raw materials and finished products are held in the warehouse system.

Conceptual architecture. No operating results are shown.

01 Receipt	Batch · Quarantine · Sample
02 QC	Testing · Release · Reject
03 Issue	Line · Check · Stock
04 Finished	QA release · Warehouse · Shipment

At a glance

+29.4% — Growth in pharmaceutical production, January–May 2026. [1]

8.5 trillion — Production target for 2026, UZS. [2]

140 — New production capacities commissioned over the past nine years. [3]

November 2026

01 Evidence and context

Who it is for

Warehouse	Receipt and issue.
QC	Testing and release.
QA	Status control.
Production	Material withdrawal.

Facts and global practice

National Statistics Committee

In January–May 2026, pharmaceutical production exceeded UZS 2.3 trillion, +29.4%. [1]

yuz.uz

2026 target: production of UZS 8.5 trillion, $800 million in projects. [2]

Presidential meeting

Over nine years, $1.8 billion has been invested in the sector and 140 new production capacities commissioned. [3]

When new capacities come online, warehouse processes often stay the old way.

02 Where the losses occur

Manual labels

Quarantine and release labels are changed by hand.

Sampling

Samples taken for QC are not deducted from stock.

Issue

Release status is not checked for material issued to the line.

Finished product

A batch not released by QA can end up in a shipment.

How the loss is calculated

Rejected batch	batch value (UZS)
Deviation investigation	QA hours × QA hourly cost (UZS/hour)
Stock discrepancy	discrepancy quantity (units) × unit price (UZS/unit)
Inspection	number of observations

Illustrative calculations; establish the baseline, units and rates during the site assessment. Avoid counting the same loss twice.

03 Solution architecture

Every batch has a status

The warehouse system maintains quarantine, released, rejected and sample statuses, and enforces a status check when materials are issued to the line and when goods are shipped.

01 Receipt

Batch · Quarantine · Sample

02 QC

Testing · Release · Reject

03 Issue

Line · Check · Stock

04 Finished

QA release · Warehouse · Shipment

Modules

WMS: GMP statuses	Quarantine, release, reject	Commercially available
Link to QC	Test result	Engineering capability
Line issue control	Scanner	Commercially available
1C integration	Stock	Commercially available

Each module has a readiness status. Third-party results are not a forecast for your site.

04 Implementation and measurement

01 Warehouse audit

Statuses and process.

Output: gaps.

02 Pilot

Raw material warehouse.

Output: statuses in the system.

03 Expansion

Finished product.

Output: full coverage.

04 Subscription

Monthly.

Output: trend.

What is measured

Status errors	Cases	WMS
Test waiting time	Days	System
Stock accuracy	Discrepancy	WMS
Issue errors	Cases	Handheld terminal

What is needed to start

- Warehouse manager
- Head of QC
- Batch procedure
- Test access to 1C

05 Readiness checklist and next step

01 Is quarantine status maintained in the system?	Yes / No / Unknown
02 Is QC release transferred to the system automatically?	Yes / No / Unknown
03 Is the status checked when material is issued to the line?	Yes / No / Unknown
04 Are samples deducted from stock?	Yes / No / Unknown
05 Are batches not released by QA blocked?	Yes / No / Unknown
06 Are rejected batches stored in a separate location?	Yes / No / Unknown
07 Are labels printed from the system?	Yes / No / Unknown
08 Does stock match 1C?	Yes / No / Unknown
09 Can status history be shown during an inspection?	Yes / No / Unknown
10 Is a responsible person assigned?	Yes / No / Unknown

What we do not promise

• Exact timeline and price without an audit

• GMP/GDP certification or inspection outcome

• Approving validation documents ourselves

• Unmeasured results

Plant warehouse audit

We review raw material and finished product statuses.

• Map of breakpoints

• Pilot plan

• Implementation fee and monthly subscription

Scope, price and schedule are agreed after reviewing the site and its data.

06 Sources and scope

[1] National Statistics Committee: pharmaceutical production, January–May 2026. kun.uz, 16.07.2026.

kun.uz

[2] Decree of 05.03.2026 on stimulating the pharmaceutical sector: 2026 targets. yuz.uz, 2026.

yuz.uz

[3] Presidential videoconference: expanding production in the pharmaceutical industry. president.uz, 05.03.2026.

president.uz

Prepared from the cited sources. Vendor statements and reported sector figures are attributed, not independently verified here. No performance, certification or regulatory outcome is guaranteed. Check the current official rules before making decisions.

The Endurance Industrial Technologies LLC · MT-PH-05-EN · 11.2026