



Tool for Visual Inspection of Medicines

A checklist for visual inspection of medicines in order to identify suspicious products for further examination.

This document has been produced by the International Council of Nurses in partnership with the United States Pharmacopoeia (USP) and modified by the Military and Emergency Pharmacists Section of FIP. The tool is designed to help health professionals carry out a visual inspection of medicines for signs of counterfeiting such as improper packaging, labelling or description of dosage. All suspicious products with incorrect labels, missing information about the strength, dosage, or expiration date should be reported to the appropriate national authority or to the WHO or FIP.

1. PACKAGING

Any medicine should be packaged in a container, which can be anything from a glass bottle to a blister pack, to a tube of glass, plastic or metal. A folding carton bearing the label very often protects the container. Check the type of packaging and compare it to known containers for the same product from the same manufacturer. The packaging and the labelling of pharmaceutical products is a very complex and an expensive business. Thus, the process and the quality of packaging material are difficult to counterfeit. This is why a thorough visual inspection could be an important screening step for product quality control. However, producers of counterfeit products are quick to copy special labelling and holograms

	Yes	No	Other Observations
1.1 Container and Closure			
Does the container and closure protect the product from the outside environment; e.g. is the container properly sealed?			
Do they assure that the product will meet the proper specifications throughout its shelf life?			
Are the container and the closure appropriate for the product inside?			
Is the container safely sealed?			

1.2 Label

The information written on the label is very important. The information can be printed on a label adhered to the container, or printed directly onto the container itself, but all information must be legible and indelible.

If there is a carton protecting the container, does the label on the carton match the label on the container?			
Is all information on the label legible and indelible?			

1.2.1 The trade (brand) name	Yes	No	Other Observations
Is the trade name spelled correctly?			
Is the medicinal product (trade name) registered in the country by the Drug Regulatory Authority)? Is the product legally sold in the country?			
Does the symbol ® follow the trade name?			
For blister or foil strip packed products, is the trade name indelibly impressed or imprinted onto the strip?			
1.2.2 The active ingredient name (scientific name/generic name):			
Is the active ingredient name spelt correctly?			
Do the trade name and the active ingredient names correspond to the registered product?			
1.2.3 The manufacturer's name and logo:			
Are the manufacturer's name and logo legible and correct?			
Does the logo or hologram (if applicable) look authentic?			
Does the logo or hologram (if applicable) change colour when viewed from different angles?			
1.2.4 The manufacturer's full address: All manufacturers are required by international law to print their complete address on the label. Many companies making substandard or counterfeit products do not have a traceable address on the label.			
Is the manufacturer's full address legible and correct?			
Has this company or its agent registered the product in the country?			
1.2.5 The medicine strength (mg/unit):			
Is the strength - the amount of active ingredient per unit - clearly stated on the label?			
For blister or foil strip packed products, is the medicine strength indelibly impressed or imprinted onto the strip?			
1.2.6 The dosage form (e.g., tablet/capsule):			
Is the dosage form clearly indicated on the container label?			
Does the dosage form stated on the label match the actual dosage form of the medication?			
Is the indicated medicine under this dosage form registered and authorised for sale in the country?			
1.2.7 The number of units per container:			
Does the number of dosage units listed on the label match the number of dosage units stated on the container?			

1.2.8 Dosage statement (if appropriate)	Yes	No	Other Observations
Is the dosage clearly indicated on the label?			
Is the dosage stated on the label appropriate for the medicine in this form and strength?			
Is the product registered and authorised for sale in the country with this dosage?			
1.2.9 The batch (or lot) number:			
Medicines with the same batch/lot number are expected to be equivalent. In a continuous process, a batch corresponds to a defined portion of the production, based on time or quantity. Products from the same batch number should have the same history of manufacturing, processing, packing, and coding. All product quality control testing should be based on batch/lot numbers.			
Does the numbering system on the package correspond to that of the producing company?			
For blister or foil strip packed medicines, is the batch number indelibly impressed or imprinted onto the strip?			
1.2.10 The date of manufacture and the expiry date:			
An expired product should not be sold under any circumstances.			
Are the manufacture and expiry dates clearly indicated on the label?			
For blister or foil strip packed products, is the expiry date indelibly impressed or imprinted onto the strip?			
1.2.11 Storage information:			
Are the storage conditions indicated on the label?			
Has the product been properly stored?			

1.3 Leaflet or package insert:			
All product packs contain a leaflet explaining dosage, the medicine content, the adverse affects, the medicine's actions, and how the medicine should be taken. The only exceptions are where the packaging includes all the information that would otherwise be in the leaflet			
Is the package insert printed on the same coloured or same quality paper as the original (If available to compare) or does it look familiar?			
Is the ink on the package insert or packaging smudge-proof?			
Does the information on the package insert match the information on the product container?			

2. PHYSICAL CHARACTERISTICS OF TABLETS/CAPSULES

All types of medicines can be and have been counterfeited from cough syrups to injections. As mentioned above, it is important to check the packaging of these medicines.

Additionally, tablets or capsules can be checked for signs of moisture, dirty marks, abrasion erosion, cracks, or any other adulteration.

2.1 Uniformity of Shape:	Yes	No	Other Observations
Are the tablets/capsules uniform in shape?			
2.2 Uniformity of Size:			
Are the tablets/capsules uniform in size?			
2.3 Uniformity of Colour:			
Are the tablets/capsules uniform in colour?			
2.4 Uniformity of Texture:			
Tablets can be film-coated, sugar-coated or enteric-coated.			
Do the tablets have a uniform coating?			
Is the base of the tablets fully covered?			
Are the tablets uniformly polished, free of powder, and non-sticking?			
2.5 Markings (scoring, letters, etc):			
Are markings uniform and identical?			
Does the logo (if present) match that of the manufacturing company?			
2.6 Breaks, Cracks and Splits:			
Are the tablets/capsules free of breaks, cracks, splits or pinholes?			
2.7 Embedded surface spots or contamination:			
Are the tablets/capsules free of embedded surface spots and foreign particle contamination?			
2.8 Presence of empty capsules in the case of a sample of capsules:			
Is the sample examined free of empty capsules?			
2.9 Smell			
Does the medicine smell the same as the original (If available)?			
Does it smell peculiar?			

Reporting Counterfeit Medicines

If, after carrying out the above visual inspection, you suspect you have discovered a counterfeit medicine, you should report this immediately to your local health authority. Alternatively, you can contact WHO's Department of Quality Assurance and Safety of Medicines (QSM):

<http://www.who.int/medicines/organization/qsm/activities/qualityassurance/cft/CounterfeitReporting.htm>

or to FIP. A simple reporting card can be found on the FIP website:

<http://www.fip.org/counterfeitmedicines.com>