MIL-T-37923(DLA-DM)
31 October 1978

MILITARY SPECIFICATION

HYPODERMIC AUTO-INJECTOR, DEMONSTRATION

This specification is approved for use by the Defense Personnel Support Center, Defense Logistics Agency, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers a training device (demonstrator) for Antidote, Nerve Agents, Injector (see 6.2).

2. APPLICABLE DOCUMENTS

2.1 Issues of documents. The following documents, of the issue in effect on date of invitation for bids or request for proposals, form a part of this specification to the extent specified herein.

STANDARDS

FEDERAL

FED-STD-595 - Colors

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129 - Marking for Shipment and Storage.

(Copies of specifications and standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Headquarters, Defense Personnel Support Center, ATTN: Directorate of Medical Materiel, DPSC-ATT, 2800 South 20th Street, Philadelphia, PA 19101, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 6910

3. REQUIREMENTS

3.1 Material. Shall be a pressure-activated automatic injector device suitable for training individuals in the use of Antidote, Nerve Agents, Injector (see 6.3).

3.1.1 Physical characteristics.

3.1.1.1 Training device. The training device shall have the same basic appearance (configuration and engineering design) as the Antidote, Nerve Agents, Injector, except for color coding and description of contents. The training device shall function in the same manner as the actual injector except that the training device shall not contain drug product or needle. In addition, the training device shall have an overall length of 5.75 inches (14.6 cm) + 0.25 inch (0.63 cm) and a maximum diameter of 0.75 inch (1.9 cm). The device's maximum gross weight shall be 35 grams when tested as specified in 4.2.3.1.

3.1.1.2 Prod. The training device shall incorporate a dull plastic prod. When the training device is activated, the prod shall be propelled from the black end (front) of the injector 0.125 inch (0.32 cm) + 0.0125 inch (0.032 cm). The prod's diameter shall be 0.1 inch (0.25 cm) $\pm$ 0.01 inch (0.025 cm).

3.1.1.3 Safety cap. The training device shall also incorporate a removable gray safety cap having a maximum diameter of 0.8 inch (2.0 cm).

3.2 Activation force. The training device shall activate when a force of 1.5 to 9 pounds (0.7 to 4 kg) is axially applied as specified in 4.2.3.2. The front end of the training device shall not become dislodged during activation.

3.3 Repeated use. The training device shall be capable of being recocked and reused. The average number of recockings shall be at least nine when tested as specified in 4.2.3.3.

3.4 Accessories. The accessories for the training device shall be the following:

3.4.1 Plastic bags. Shall be a clear polyethylene bag the same as the one in which each trainer device is packaged (see 5.1.2) except shall be open at one end. The bag shall be capable of being heat sealed using the bag closure clip (see 3.4.2).

3.4.2 Bag closure clips. Shall be a closure tool which when placed over the open end of the plastic bag (see 3.4.1) in accordance with manufacturer's directions enables easy repackaging and sealing of the training device in the plastic bag. An instruction card illustrating the use of the bag closure clips shall accompany the clips.

3.4.3 Recocking caps. Shall be a device which will enable the training device to be recocked when placed over the safety end of the trainer in accordance with the manufacturer's directions.

3.4.4 Instruction cards. The laminated instruction cards shall illustrate the use and recocking of the training device. The nominal size of the instruction cards shall be 5 inches (13 cm) X 8 inches (20 cm).

NOTE: See 5.1.1 for the quantity of the accessories per unit of issue.

3.5 Labeling - individual training device. Each individual training device shall be durably and legibly marked or labeled as specified. When tested as specified in 4.2.3.4, the marking shall remain entirely legible; any labels used shall be unaffected and shall remain entirely adhered to each training device.

3.5.1 Label information. Each training device label shall only bear the following information. The label of the training device shall approximate color number 35550 of FED-STD-595 and shall have the following information imprinted:

(a) TRAINING DEVICE
(b) ANTIDOTE, NERVE AGENTS AUTO-INJECTOR
(c) Contains no drug product or needle
(d) 1. PULL OUT GRAY SAFETY
(e) 2. PLACE BLACK END on outer thigh and PUSH HARD till injector functions
(f) HOLD FIRMLY IN PLACE FOR TEN SECONDS

3.6 Delivery. Not more than 6 months shall have elapsed from the date of manufacture of the training device to the date of delivery to the Government.

3.7 Workmanship. The training devices shall be free from defects which detract from their appearance or impair their serviceability.

4. QUALITY ASSURANCE PROVISIONS

4.1 Supplier responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government

reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Records of examinations and tests performed by or for the contractor shall be maintained by the contractor and made available to the Government, upon the Government's request, at any time, or from time to time, during the performance of the contract and, (i) as to any expiration dated item, for the expiration dating period specified by the contractor for such item, or such longer period as may be required by regulation of any federal agency; or (ii) as to non-dated items, for not less than 3 years after delivery of the item to the Government.

4.1.2 No company supplying any ingredient(s) to the contractor will be considered an acceptable facility for the performance of any inspection requirements specified herein.

4.2 Quality conformance inspection.

4.2.1 Sampling.

4.2.1.1 For examination. Sampling for examination shall be conducted in accordance with MIL-STD-105.

4.2.1.2 For tests. Samples for each test shall be selected in accordance with MIL-STD-105, level S-4, using an AQL of 1.5 (percent defective).

4.2.2 Inspection procedure.

4.2.2.1 For examination. Examination shall be conducted in accordance with the following classification of defects.

TABLE I. Classification of defects (training device).

Categories	Defects 1/
Critical:	
1	Prod missing.
2	Safety cap missing.
3	Marking or labeling of the training device incorrect, missing or illegible.

TABLE I. Classification of defects (training device). (Continued)

Categories	Defects 1/
Major:	AQL 2.5 (percent defective)
101	Length or diameter of training device not as specified.
102	Diameter or safety cap not as specified.
103	Prod diameter not as specified.
104	Distance prod propelled from front of the injector not as specified.
105	Label color not as specified.

1/ Inspection is not restricted to the classified possible defects listed above.

4.2.2.2 For tests. Samples selected in accordance with 4.2.1.2 shall be tested as specified in 4.2.3. Where possible, the samples shall be used for two or more tests.

4.2.3 Tests.

4.2.3.1 Weight. Shall be determined by using a suitable accurate balance.

4.2.3.2 Activation force. Remove the safety mechanism from the training device. Place the training device in a suitable device capable of applying and measuring required loads. Apply a load axially to the training device with the least possible impact and increase the load until the training device is activated. Record the actual load at which the training device was activated. Examine the training device to determine if the front end has become dislodged during the activation.

4.2.3.3 Repeated use. The training device shall be fired and recocked as illustrated on the instruction card.

4.2.3.4 Marking or labeling durably and legibly. Rub the marking or labeling on the training device ten times with fingers using moderate pressure. Examine for legibility and permanency of marking or labeling.

5. PACKAGING

5.1 Packaging. Packaging shall be level A or C, as specified (see 6.1).

5.1.1 Unit of issue. One box containing the following items constitutes one unit of issue:

(a) Twenty-four (24) training devices packaged as per 5.1.2.
(b) Two hundred sixteen (216) plastic bags.

(c) Four (4) bag closure clips (heat closure tools)
(d) One (1) instruction card illustrating use of bag closure clips.
(e) Twelve (12) recocking caps.
(f) Twelve (12) laminated instruction cards illustrating use and recocking as shown on attached instruction sheet.

5.1.2 Level A. Each training device shall be packaged in a clear tear-off polyethylene bag having an average thickness of no less than 0.003 inch (.008 cm). All seams of the bag shall be completely sealed. The minimum inside dimensions of the bag shall be 7.5 inches by 1.5 inches (18.75 cm x 3.75 cm). Each bag shall be designed to permit fast and easy opening and shall have a clearly identified tear-off end. Tear-off portion of the bag shall be proximate to safety end of the device.

5.1.2.1 Unit package. A fiberboard box containing one unit of unit constitutes the unit package.

5.1.3 Level C. Units shall be packaged in standard commercial containers of the size and kind commonly used, which will afford the degree of protection required for shipment and use of the product for its intended purpose.

5.2 Packing. Packing shall be level A, B or C, as specified (see 6.1).

5.2.1 Level A. Twelve (12) units of issue shall be packed in a weather resistant fiberboard container.

5.2.2 Level B. Twelve (12) units of issue shall be packed in a fiberboard container.

5.2.3 Level C. The packaged commodity shall be packed in shipping containers that will afford adequate protection against damage during direct shipment from the supply source to the first receiving activity. These packs shall conform to the applicable carrier's rules and regulations.

5.3 Marking.

5.3.1 Training device. The poly bag in which the training device is enclosed shall have the words "PULL QUICKLY" imprinted on each side of the perforated line. Each device shall have a label affixed. Each label on device shall have information imprinted as specified in 3.5.1.

5.3.2 Unit of Issue. The minimum labeling information of the unit of issue (box) shall include:

(a) National Stock Number.
(b) Training Device, Antidote, Nerve Agents Auto-Injector (contains no drug product or needle).
(c) Contents (as such).
(d) Name and address of manufacturer.

5.3.3 Exterior container. Exterior container shall be marked in accordance with MIL-STD-129 except that the date of manufacture shall be shown in lieu of the date packed. Lot (control) number shall be shown.

6. NOTES

6.1 Ordering data. Procurement documents should specify the following:

(a) Title, number and date of this specification.

(b) National Stock Number.

(c) Selection of applicable levels of packaging and packing (see 5.2 and 5.3).

6.2 This specification covers the following item:

National Stock Number	Item Identification
6910-01-061-6444	HYPODERMIC AUTO-INJECTOR, DEMONSTRATION, Nerve Agents, 24s

6.3 The National Stock Number for Antidote, Nerve Agents, Injector is 6505-00-134-2943, covered by MIL-A-37251 and Int. Amend-1.

Preparing activity:
DLA-DM

Project No. 6910-0383

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval
No. 22-R255

INSTRUCTIONS: The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay, or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/ vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity.

DOCUMENT IDENTIFIER AND TITLE
MIL-T-37923(DLA-DM), HYPODERMIC AUTO-INJECTOR, DEMONSTRATION

NAME OF ORGANIZATION AND ADDRESS

CONTRACT NUMBER

MATERIAL PROCURED UNDER A
☐ DIRECT GOVERNMENT CONTRACT ☐ SUBCONTRACT

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?
   A. GIVE PARAGRAPH NUMBER AND WORDING.

   B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID

3. IS THE DOCUMENT RESTRICTIVE?
   ☐ YES ☐ NO *(If "Yes", in what way?)*

4. REMARKS

SUBMITTED BY *(Printed or typed name and address - Optional)*

TELEPHONE NO.

DATE

DD FORM 1 JAN 72 1426 REPLACES EDITION OF 1 JAN 66 WHICH MAY BE USED

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