



1-866-527-6229

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# Because One Needle is Too Many

Neogen Detectable Needles - Food Safety from Behind the Farm Gate to the Dinner Plate.

A single broken needle can put an entire food chain at risk. For more than 20 years, Neogen's D3™ Needles have given Canadian producers, packers, and auditors the confidence that if a needle breaks, it can be found, protecting the food supply and the trust consumers place in Canadian livestock. Whether you need proven plant-level detection with D3 or now the added layer of dual detectability with on-farm identification and recovery with the D3X® extraction collar, Neogen offers detectable needle solutions built for every stage of production, backed by industry-leading research and a track record producers, packers, and auditors rely on.

# D3<sup>TM</sup> Needles



## D3 Needles - Durable. Detectable. Dependable.

For more than 20 years, the Neogen D3 Detectable Needle has been the trusted standard among producers, packers, and auditors, delivering detectability at line speed by metal detection systems in meat processing plants.



The Ideal<sup>®</sup> D3 Detectable Needle has been the benchmark in detectable needle technology, engineered with a proprietary metal alloy cannula that delivers up to 100% detectability, independently verified by Iowa State University testing where the D3 Needle was the only needle found to be fully detectable. Beyond detection, the D3 Needle is built for strength featuring a thick-walled cannula that reduces bending and breaking more than 6-fold over conventional needles. A three-point, tri-beveled, precision ground tip delivers an ultra-sharp needle that delivers easier penetration for greater animal comfort, stays sharper longer, and helps reduce the risk of injection-site abscesses. Each needle is packaged in an easily recognizable red cartridge that is ISO color-coded with a tamper-evident seal for safe, convenient handling. As the benchmark that all other detectable needles are measured against, the D3 Detectable Needle helps protect the food chain at every stage, from the farm to the processing floor, and eventually, the dinner plate, while supporting the documentation and traceability producers need for audit readiness and certification programs.

- Up to 100% detectable in standard meat industry metal detection systems
- Up to 6x more detectable than standard stainless-steel needles
- Thick-walled cannula, plated brass or aluminum hub
- Tri-beveled, precision ground needle tip



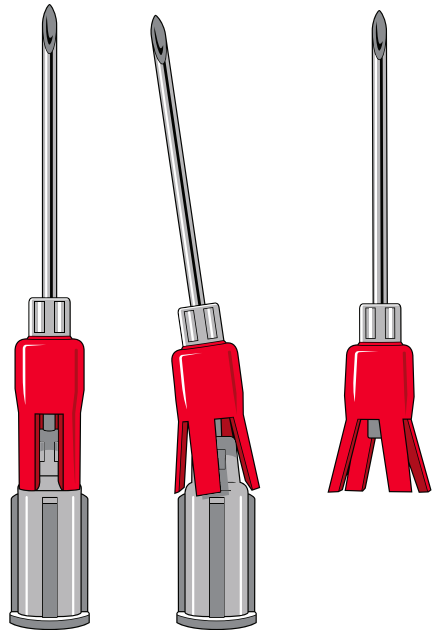
## D3X Needles - Dependability, Durability. Dual-Detectability.

Built on trusted performance, D3X represents the next evolution in detectable needle technology. Featuring a patented extraction collar and near-100% detectability, D3X adds an extra layer of on-farm food safety protection while maintaining the industry’s trusted standard for detectability at the processing plant.



D3X maintains the proven detectability of the D3 Needle at line speed, while its patented red extraction collar is positioned just beyond the needle’s weakest point to help prevent a broken needle fragment from migrating deeper into tissue. If a break occurs, the collar provides a visible indication and allows for manual retrieval without specialized equipment, reducing the need to tag out or euthanize the animal. A thick-walled cannula and durable aluminum hub provide exceptional strength, while the ultra-sharp, tri-beveled tip stays sharper longer and helps reduce the risk of injection-site abscesses. Packaged in an easily identifiable red cartridge with tamper-evident, ISO color-coded seals, D3X delivers ideal protection through on-farm visibility and processing plant detectability.

- Up to 100% detectable in standard meat industry metal detection systems
- Up to 6x more detectable than standard stainless-steel needles
- Patented, highly visible, red extraction collar
- Thick-walled cannula with aluminum hub
- Tri-beveled, precision ground needle tip
- ISO color-coded for asy gauge identification



1. Needle intact.
2. A bent needle with 1 or 2 of the red arms flared out
3. Broken needle with all 4 arms flared.

# Choose Red, The Right Choice for Food Safety

| D3 Needles (100/box)            |                 |                 |           |
|---------------------------------|-----------------|-----------------|-----------|
| Description                     | ISO Gauge Color | Cartridge Color | Item Code |
| Brass Hub                       |                 |                 |           |
| 16 G x 5/8 in D3                | White           | Red             | 9415      |
| 16 G x 3/4 in D3                | White           | Red             | 9416      |
| 16 G x 1 in D3                  | White           | Red             | 9420      |
| 16 G x 1 1/2 in D3              | White           | Red             | 9417      |
| 18 G x 1/2 in D3                | Pink            | Red             | 9428      |
| 18 G x 5/8 in D3                | Pink            | Red             | 9422      |
| 18 G x 3/4 in D3                | Pink            | Red             | 9421      |
| 18 G x 1 in D3                  | Pink            | Red             | 9423      |
| 18 G x 1 1/2 in D3              | Pink            | Red             | 9424      |
| Aluminum Hub                    |                 |                 |           |
| 14 G x 1 in Aluminum Hub D3     | Green           | Red             | 9418AL    |
| 14 G x 1 1/2 in Aluminum Hub D3 | Green           | Red             | 9419AL    |
| 20 G x 1/2 in Aluminum Hub D3   | Yellow          | Red             | 9412AL    |
| 20 G x 1 in Aluminum Hub D3     | Yellow          | Red             | 9411AL    |
| 20 G x 1 1/2 in Aluminum Hub D3 | Yellow          | Red             | 9430AL    |



| D3X Needles (100/box) |                 |                 |           |
|-----------------------|-----------------|-----------------|-----------|
| Description           | ISO Gauge Color | Cartridge Color | Item Code |
| 14 G x 5/8 in D3X     | Green           | Red             | 9461      |
| 14 G x 1 in D3X       | Green           | Red             | 9456      |
| 14 G x 1 1/2 in D3X   | Green           | Red             | 9448      |
| 16 G x 1/2 in D3X     | White           | Red             | 9459      |
| 16 G x 3/4 in D3X     | White           | Red             | 9446      |
| 16 G x 3/4 in D3X     | White           | Red             | 9445      |
| 16 G x 1 in D3X       | White           | Red             | 9449      |
| 16 G x 1 1/2 in D3X   | White           | Red             | 9447      |
| 18 G x 1/2 in D3X     | Pink            | Red             | 9452      |
| 18 G x 3/4 in D3X     | Pink            | Red             | 9450      |
| 18 G x 5/8 in D3X     | Pink            | Red             | 9451      |
| 18 G x 1 in D3X       | Pink            | Red             | 9453      |
| 18 G x 1 1/2 in D3X   | Pink            | Red             | 9454      |
| 20 G x 1/2 in D3X     | Yellow          | Red             | 9444      |
| 20 G x 1 in D3X       | Yellow          | Red             | 9457      |
| 20 G x 1 1/2 in D3X   | Yellow          | Red             | 9458      |



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The Canadian Centre for Occupational Health and Safety states that on Canadian farms, used needles, syringes, and veterinary sharps must immediately be placed in a rigid, puncture-resistant, and leak-proof plastic container labeled as biohazard waste. Never throw loose sharps in household trash, recycling, or farm burn piles. When three-quarters full, seal the container and drop it off at a participating local vet clinic, regional waste facility, or community sharps collection program.

| ISO Needle Gauge Color Code Chart |       |      |        |            |      |      |        |
|-----------------------------------|-------|------|--------|------------|------|------|--------|
| 14 G                              | 16 G  | 18 G | 20 G   | 21 G       | 22 G | 23 G | 25 G   |
| Green                             | White | Pink | Yellow | Dark Green | Gray | Blue | Orange |



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