

**MULTIMIN 90- zinc oxide, manganese carbonate, sodium selenite, copper carbonate injection, solution**  
**Multimin North America, Inc.**

*Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click [here](#).*

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**MULTIMIN 90**

**ACTIVE SUBSTANCES PER ML:**

<b>Zinc</b> .....	60 mg/ml
<b>Manganese</b> .....	10 mg/ml
<b>Selenium</b> .....	5 mg/ml
<b>Copper</b> .....	15 mg/ml

**OTHER SUBSTANCES:**

Benzyl alcohol 1% v/v (as preservative)

**DIRECTIONS:**

This product is only for use in cattle.

**MULTIMIN®90** is to be given subcutaneously (under the skin) ONLY.

It is recommended to administer the product in accordance with Beef Quality Assurance (BQA) guidelines. Minimum distance between injection sites for the **MULTIMIN®90** product and other injection sites should be at least 4 inches.

Inject under the loose skin of the middle of the side of the neck. Max volume per injection site is 7ml.

Subcutaneous injection in middle of side of neck.

RX

**CAUTION:**

Slight local reaction may occur for about 30 seconds after injection. A slight swelling may be observed at injection site for a few days after administration. Use standard aseptic procedures during administration of injections to reduce the risk of injection site abscesses or lesions.

**PRECAUTIONS:**

Selenium and copper are toxic if administered in excess.

Always follow recommended label dose. Do not overdose.

It is recommended that accurate body weight is determined prior to treatment.

Do not use concurrently with other injectable selenium and copper products.

Do not use concurrently with selenium or copper boluses.

Do not use in emaciated cattle with a BCS of 1 in dairy or 1-3 in beef.

Consult your veterinarian.

**WITHDRAWAL PERIOD:**

Meat 14 days. Milk zero withdrawal.

Store between 15° C and 30° C (59° F and 86° F)

Lot No.              Exp. Date

**SUPPLEMENTATION PROGRAM**

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BULLS	3 times per year
BEEF COWS	4 weeks before breeding 4 weeks before calving
DAIRY COWS	4 weeks before calving 4 weeks before insemination at dry-off
CALVES	at birth at 3 months and/or weaning
HEIFERS	every 3 months - especially 4 weeks before breeding

(program gives planned dates that can be varied to suit management programs)

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**MULTIMIN 90**

MANUFACTURED FOR

**MULTIMIN**

**NORTH AMERICA, INC.**

2809 East Harmony Road, Suite 190

Fort Collins, CO 80528

**DOSAGE TABLE**

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ANIMAL WEIGHT (lbs)	CALVES UP TO 1 YEAR 1ml/100lb BW	CATTLE 1-2 YEARS 1ml/150lb BW	CATTLE > 2 YEARS 1ml/200lb BW
50	0.5 ml	-	-
100	1 ml	-	-
150	1.5 ml	-	-
200	2 ml	-	-
300	3 ml	-	-
400	4 ml	-	-
500	5 ml	-	-
600	6 ml	-	-
700	7 ml	-	-
800	-	5.3 ml	-

900	-	6 ml	-
1000	-	6.6 ml	5 ml
1100	-		5.5 ml
1200	-		6 ml
1300	-		6.5 ml
1400	-		7 ml

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## Package Label Principle Display Panel

**NDC# 49920-006-01**

**MULTIMIN®90**

Sterile selenium, manganese, copper and zinc injection for cattle

**CAUTION:** FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

**TAKE TIME OBSERVE LABEL DIRECTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**MULTIMIN NORTH AMERICA, INC.**

2809 East Harmony Road, Suite 190

Fort Collins, CO 80525

NET CONTENTS: 100 ml

### **DIRECTIONS:**

This product is only for use in cattle.

**MULTIMIN®90** is to be given subcutaneously (under the skin) ONLY.

It is recommended to administer the product in accordance with Beef Quality Assurance (BQA) guidelines. Minimum distance between injection sites for the **MULTIMIN®90** product and other injection sites should be at least 4 inches.

Inject under the loose skin of the middle of the side of the neck. Max volume per injection site is 7ml.

Subcutaneous injection in middle of side of neck.

RX

### **ACTIVE SUBSTANCES PER ML:**

**Zinc**..... 60 mg/ml  
**Manganese**..... 10 mg/ml  
**Selenium**..... 5 mg/ml  
**Copper**..... 15 mg/ml

### **OTHER SUBSTANCES:**

Benzyl alcohol 1% v/v (as preservative)

### **DOSAGE RECOMMENDATIONS:**

CALVES: .....up to 1 year.....1 ml/per 100 lb bodyweight

CATTLE: .....from 1-2 years.....1 ml/per 150 lb bodyweight

CATTLE: .....over 2 years.....1 ml/per 200 lb bodyweight

Refer to dosage table on inside label.

Store between 15°C and 30°C (59°F and 86°F)

Lot No. Exp. Date

ACTIVE SUBSTANCES PER ML:

Zinc

60 mg/ml

Manganese

10 mg/ml

Selenium

5 mg/ml

Copper

15 mg/ml

OTHER SUBSTANCES:

Benzyl Alcohol 1% v/v (as preservative)

DOSAGE RECOMMENDATIONS:

CALVES:

up to 1 year

1 ml/100 lb bodyweight

CATTLE:

from 1 - 2 years

1 ml/150 lb bodyweight

CATTLE:

over 2 years

1 ml/200 lb bodyweight

Refer to dosage table on inside label

18-8010

Store Between 10° C and 30° C (50° F and 86° F)

INDS 92-1204

Lot No.

Exp. Date

Rev. 9-21  
1399-E

NDC# 48920-006-01

MULTIMIN®

90

Stable selenium, manganese, copper and zinc injection for cattle.

CAUTION: FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

TAKE TIME

INJECT THE LABEL DIRECTIONS

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 100 ml

DIRECTIONS:

This product is only for use in cattle.

MULTIMIN® 90 is to be given subcutaneously (under the skin) ONLY.

It is recommended to administer the product in accordance with Beef Quality Assurance (BQA) guidelines. Minimum distance between injection sites for the MULTIMIN® 90 product and other injection sites should be at least 4 inches.

Inject under the loose skin of the middle of the side of the neck. Max volume per injection site is 7 ml.

Subcutaneous injection in middle of side of neck.

MANUFACTURED FOR:

BULLYBORN NORTH AMERICA, INC.

2805 East Harmony Road, Suite 100, Fort Collins, CO 80528

front

CAUTION:

Slight local reaction may occur for about 30 seconds after injection. A slight swelling may be observed at injection site for a few days after administration. Use standard aseptic procedures during administration of injections to reduce the risk of injection site abscesses or lesions.

PRECAUTIONS:

Selenium and copper are toxic if administered in excess.

Always follow recommended label dose. Do not overdose.

It is recommended that accurate body weight is determined prior to treatment.

WITHDRAWAL PERIOD:

Meat 14 days. Milk zero withdrawal.

Do not use concurrently with other injectable selenium and copper products.

Do not use concurrently with selenium or copper boluses.

Do not use in emaciated cattle with a BCS of 1 in dairy or 1-3 in beef.

Consult your veterinarian.

SUPPLEMENTATION PROGRAM

BULLS	3 times per year
BEEF COWS	4 weeks before breeding 4 weeks before calving
DAIRY COWS	4 weeks before calving 4 weeks before insemination at dry-off
CALVES	at birth at 3 months and/or weaning
HEIFERS	every 3 months - especially 4 weeks before breeding

(program gives planned dates that can be varied to suit management programs)

adhesive print

MULTIMIN®

90

MANUFACTURED FOR:

MULTIMIN

NORTH AMERICA, INC.

2805 East Harmony Road, Suite 100

Fort Collins, CO 80528

DOSAGE TABLE

ANIMAL WEIGHT (lb)	CALVES UP TO 1 YEAR 1 ml/100 lb BW	CATTLE 1 - 2 YEARS 1 ml/150 lb BW	CATTLE > 2 YEARS 1 ml/200 lb BW
50	0.5 ml	-	-
100	1 ml	-	-
150	1.5 ml	-	-
200	2 ml	-	-
300	3 ml	-	-
400	4 ml	-	-
500	5 ml	-	-
600	6 ml	-	-
700	7 ml	-	-
800	-	5.3 ml	-
900	-	6 ml	-
1000	-	6.6 ml	5 ml
1100	-	-	5.5 ml
1200	-	-	6 ml
1300	-	-	6.5 ml
1400	-	-	7 ml

base

keep copy with in magenta lines

Package Label Principle Display Panel

**NDC# 49920-006-05**

**MULTIMIN®**

**90**

Sterile selenium, manganese, copper and zinc injection for cattle

**CAUTION:** FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

**TAKE TIME OBSERVE LABEL DIRECTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**MULTIMIN NORTH AMERICA, INC.**

2809 East Harmony Road, Suite 190

Fort Collins, CO 80525

NET CONTENTS: 500 ml

**DIRECTIONS:**

This product is only for use in cattle.

**MULTIMIN®90** is to be given subcutaneously (under the skin) ONLY.

It is recommended to administer the product in accordance with Beef Quality Assurance (BQA) guidelines. Minimum distance between injection sites for the **MULTIMIN®90** product and other injection sites should be at least 4 inches.

Inject under the loose skin of the middle of the side of the neck. Max volume per injection site is 7ml.

Subcutaneous injection in middle of side of neck.

RX

**ACTIVE SUBSTANCES PER ML:**

**Zinc**..... 60 mg/ml

**Manganese**..... 10 mg/ml

**Selenium**..... 5 mg/ml

**Copper**..... 15 mg/ml

**OTHER SUBSTANCES:**

Benzyl alcohol 1% v/v (as preservative)

**DOSAGE RECOMMENDATIONS:**

CALVES: .....up to 1 year.....1 ml/per 100 lb bodyweight

CATTLE: .....from 1-2 years.....1 ml/per 150 lb bodyweight

CATTLE: .....over 2 years.....1 ml/per 200 lb bodyweight

Refer to dosage table on inside label.

Store between 15°C and 30°C (59°F and 86°F)

Lot No. Exp. Date

NDC# 49920-006-05

**ACTIVE SUBSTANCES PER ML:**

**Zinc** .....60 mg/ml

**MULTIMIN®**

**DIRECTIONS:**

This product is only for use in cattle.



Manganese.....10 mg/ml  
Selenium ..... 5 mg/ml  
Copper ..... 15 mg/ml

#### OTHER SUBSTANCES:

Benzyl Alcohol 1% v/v (as preservative)

#### DOSAGE RECOMMENDATIONS:

CALVES: ..... up to 1 year  
..... 1 ml/100 lb bodyweight

CATTLE: ..... from 1 - 2 years  
..... 1 ml/150 lb bodyweight

CATTLE: ..... over 2 years  
..... 1 ml/200 lb bodyweight

Refer to dosage table on inside label

Store Between 15° C and 30° C (59° F and 86° F)

Lot No. Exp. Date 18-830  
RMS 92-1206  
Rev. 6-21  
L500-E



Sterile selenium, manganese, copper and zinc injection for cattle.

**CAUTION:** FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

TAKE TIME  OBSERVE LABEL DIRECTIONS

**KEEP OUT OF REACH OF CHILDREN**



MANUFACTURED FOR:  
**MULTIMIN NORTH AMERICA, INC.**  
2809 East Harmony Road, Suite 190  
Fort Collins, CO 80528

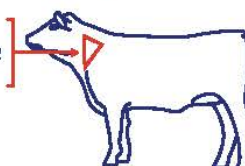
**NET CONTENTS: 500 ml**

**MULTIMIN® 90** is to be given subcutaneously (under the skin) **ONLY**.

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Inject under the loose skin of the middle of the side of the neck. Max volume per injection site is 7 ml.

Subcutaneous injection in middle of side of neck.



Peel here

front

#### CAUTION:

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#### PRECAUTIONS:

Selenium and copper are toxic if administered in excess.

Always follow recommended label dose. Do not overdose.

It is recommended that accurate body weight is determined prior to treatment.

#### WITHDRAWAL PERIOD:

Meat 14 days. Milk zero withdrawal.

Do not use concurrently with other injectable selenium and copper products.

Do not use concurrently with selenium or copper boluses.

Do not use in emaciated cattle with a BCS of 1 in dairy or 1-3 in beef.

Consult your veterinarian.

#### SUPPLEMENTATION PROGRAM

<b>BULLS</b>	3 times per year
<b>BEEF COWS</b>	4 weeks before breeding 4 weeks before calving
<b>DAIRY COWS</b>	4 weeks before calving 4 weeks before insemination at dry-off
<b>CALVES</b>	at birth at 3 months and/or weaning
<b>HEIFERS</b>	every 3 months – especially 4 weeks before breeding
(program gives planned dates that can be varied to suit management programs)	

adhesive print



MANUFACTURED FOR:  
**MULTIMIN**  
NORTH AMERICA, INC.  
2809 East Harmony Road, Suite 190

#### DOSAGE TABLE

ANIMAL WEIGHT (lbs)	CALVES UP TO 1 YEAR 1 ml/100 lb BW	CATTLE 1 - 2 YEARS 1 ml/150 lb BW	CATTLE > 2 YEARS 1 ml/200 lb BW
50	0.5 ml	-	-
100	1 ml	-	-
150	1.5 ml	-	-
200	2 ml	-	-
300	3 ml	-	-
400	4 ml	-	-
500	5 ml	-	-
600	6 ml	-	-
700	7 ml	-	-
800	-	5.3 ml	-
900	-	6 ml	-

Fort Collins, CO 80528

1000	-	6.6 ml	5 ml
1100	-		5.5 ml
1200	-		6 ml
1300	-		6.5 ml
1400	-		7 ml

base

keep copy with in magenta lines

MULTIMIN 90

zinc oxide, manganese carbonate, sodium selenite, copper carbonate injection, solution

Product Information			
Product Type	PRESCRIPTION ANIMAL DRUG	Item Code (Source)	NDC:49920-006
Route of Administration	SUBCUTANEOUS		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
ZINC OXIDE (UNII: SOI2LOH54Z) (ZINC CATION - UNII:13S1S8SF37)	ZINC CATION	60 mg in 1 mL
MANGANESE CARBONATE (UNII: 9ZV57512ZM) (MANGANESE CATION (2+) - UNII:H6EP7W5457)	MANGANESE CATION (2+)	10 mg in 1 mL
SODIUM SELENITE (UNII: HIW548RQ3W) (SELENITE ION - UNII:KXO0259XJ1)	SELENIUM	5 mg in 1 mL
CUPRIC CARBONATE (UNII: 9AOA5F11GJ) (CUPRIC CATION - UNII:8CBV67279L)	CUPRIC CATION	15 mg in 1 mL

Inactive Ingredients	
Ingredient Name	Strength
BENZYL ALCOHOL (UNII: LKG8494WBH)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
WATER (UNII: 059QF0KO0R)	
EDETIC ACID (UNII: 9G34HU7RV0)	

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:49920-006-01	1 in 1 BOX		
1		100 mL in 1 BOTTLE		
2	NDC:49920-006-05	1 in 1 BOX		
2		500 mL in 1 BOTTLE		

Marketing Information



Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
unapproved drug other		12/01/2009	

**Labeler** - Multimin North America, Inc. (831737239)

**Registrant** - Multimin North America, Inc. (831737239)

## Establishment

Name	Address	ID/FEI	Business Operations
Nova-Tech		196078976	manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Tairgi Tread-Lia Baile Na Sceilge Teoranta (DbA Ballinskelligs Veterinary Products [BVP]		986182178	manufacture, analysis

## Establishment

Name	Address	ID/FEI	Business Operations
Quality Chemicals, S.L.		565078185	analysis

## Establishment

Name	Address	ID/FEI	Business Operations
Purity Chemicals		465450491	api manufacture

## Establishment

Name	Address	ID/FEI	Business Operations
Grillo Zincoxide GmbH		315419200	api manufacture

Revised: 11/2023

Multimin North America, Inc.