Chlorine Test Kit

CN-70 (1454200), CN-70F (1454201), CN-70T (1454202)

DOC326.98.00003

Test preparation

CAUTION: ⚠ Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

NOTICE: This product has not been evaluated to test for chlorine and chloramines in medical applications in the United States.

- Analyze samples immediately after collection.
- Put the color disc on the center pin in the color comparator box (numbers to the front).
- Use sunlight or a lamp as a light source to find the color match with the color comparator box.
- Rinse the tubes with sample before the test. Rinse the tubes with deionized water after the test.
- If the color match is between two segments, use the value that is in the middle of the two segments.
- If the color disc becomes wet internally, pull apart the flat plastic sides to open the color disc. Remove the thin inner disc. Dry all parts with a soft cloth. Assemble when fully dry.
- The long-path adapter for the low range test shows the color in the tubes from top to bottom. Make sure the light source is above the tubes during the color match.
- Undissolved reagent does not have an effect on test accuracy.
- For free chlorine, read the result immediately after the reagent is added to prevent interference from monochloramine. If the sample contains 3.0 mg/L monochloramine, the free chlorine result increases each minute by 0.1 mg/L.
- If the low range test result is more than the maximum limit, use the mid range test procedure with a fresh sample.

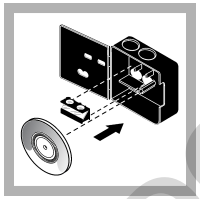
Replacement items

Description	Unit	Item no.
DPD Free Chlorine Reagent Powder Pillows, 25 mL	100/pkg	1407099
DPD Total Chlorine Reagent Powder Pillows, 25 mL	100/pkg	1406499
Bottle, square, with 25-mL mark	each	1704200
Color disc, DPD chlorine, 0–3.4 mg/L	each	990200
Color comparator box	each	173200
Long-path adapter	each	2412200
Plastic viewing tubes, 18 mm, with caps	4/pkg	4660004

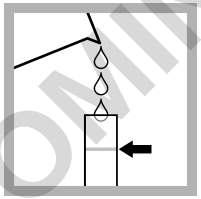
Optional items

Description	Unit	Item no.
Caps for plastic viewing tubes (4660004)	4/pkg	4660014
Glass viewing tubes, glass, 18 mm	6/pkg	173006
Stoppers for 18-mm glass tubes and AccuVac Ampuls	6/pkg	173106
Water, deionized	500 mL	27249

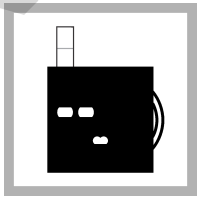
Test procedure—Free or total chlorine, low range (0–0.68 mg/L Cl_2)



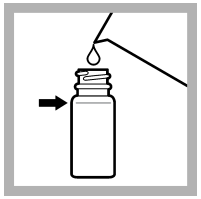
1. Install the long-path adapter in the color comparator box.



2. Fill a tube to the top line with sample.



3. Put the tube into the left opening of the color comparator box.



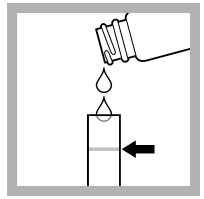
4. Fill the bottle to the 25-mL mark with sample.



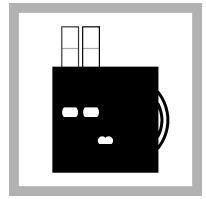
5. Add one DPD (Free or Total) Chlorine Powder Pillow. Swirl to mix.



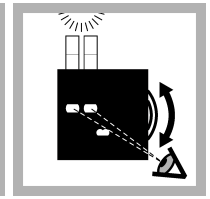
6. For free chlorine, read the result within 1 minute.
For total chlorine, wait 3 minutes. Read the result within 6 minutes.



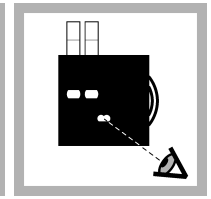
7. Fill a second tube to the top line with the prepared sample.



8. Put the second tube into the color comparator box.



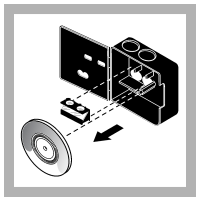
9. Hold the color comparator box below a light source. Turn the color disc to find the color match.



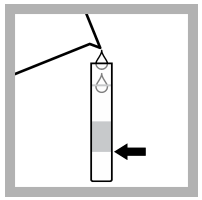
10. Read the value in the scale window. Divide the value by 5 to get the result in mg/L.

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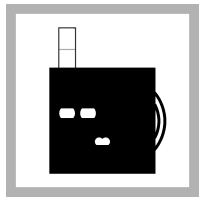
Test procedure—Free or total chlorine, mid range (0–3.4 mg/L Cl_2)



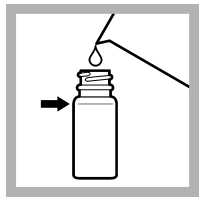
1. If installed, remove the long-path adapter.



2. Fill a tube to the first line (5 mL) with sample.



3. Put the tube into the left opening of the color comparator box.



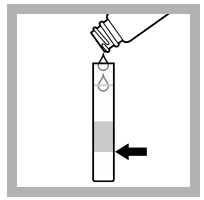
4. Fill the bottle to the 25-mL mark with sample.



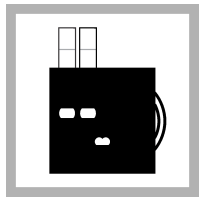
5. Add one DPD (Free or Total) Chlorine Powder Pillow. Swirl to mix.



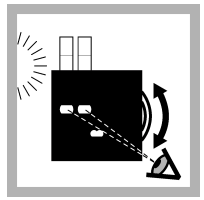
6. For free chlorine, read the result within 1 minute.
For total chlorine, wait 3 minutes. Read the result within 6 minutes.



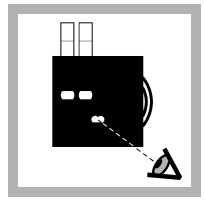
7. Fill a second tube to the first line (5 mL) with the prepared sample.



8. Put the second tube into the color comparator box.



9. Hold the color comparator box in front of a light source. Turn the color disc to find the color match.



10. Read the result in mg/L in the scale window.

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Kit de Teste de Cloro

CN-70 (1454200), CN-70F (1454201), CN-70T (1454202)

DOC326.98.00003

Preparação para o teste

CUIDADO: ⚠ Consulte as Folhas de dados de segurança (MSDS/SDS) sobre as substâncias químicas que são usadas. Use os equipamentos de segurança pessoal recomendados.

AVISO: Este produto não foi avaliado para testar cloro e cloraminas em aplicações médicas dos Estados Unidos.

- Analise as amostras imediatamente após a coleta.
- Coloque o disco de cores no pino central da caixa de comparação de cor (números para frente).
- Use a luz solar ou uma lâmpada como fonte de luz para encontrar a correspondência de cor com a caixa de comparação de cor.
- Enxágue os tubos com amostra antes do teste. Enxágue os tubos com água destilada após o teste.
- Se a correspondência de cor ficar entre dois segmentos, use o valor que está no meio dos dois segmentos.
- Se o disco de cor ficar molhado internamente, afaste as laterais de plástico para abri-lo. Remova o disco interno estreito. Seque todas as peças com um pano macio. Monte após secar totalmente.
- O adaptador de percurso longo para o teste de faixa baixa mostra a cor nos tubos de cima para baixo. Certifique-se de que a fonte de luz fique acima dos tubos durante a correspondência de cor.
- Reagente não dissolvido não tem efeito sobre a precisão do teste.
- Para cloro livre, leia o resultado imediatamente após o reagente ser adicionado para evitar interferência de monocloramina. Se a amostra contém 3,0 mg/L de monocloramina, o resultado de cloro livre aumente a cada minuto em 0,1 mg/L.
- Se o resultado do teste da faixa baixa for maior que o limite máximo, use o procedimento de teste de faixa média com uma amostra nova.

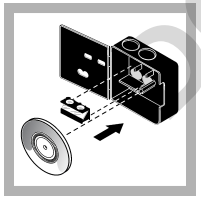
Itens de reposição

Descrição	Unidade	Nº de item
Sachê de pó reagente de cloro livre DPD, 25 ml	100/pct	1407099
Sachê de pó reagente de cloro total DPD, 25 ml	100/pct	1406499
Garrafa, quadrada, com marca em 25 ml	cada	1704200
Disco de cores, Cloro DPD, 0–3,4 mg/l	cada	990200
Caixa de comparação de cores	cada	173200
Adaptador de percurso longo	cada	2412200
Tubos plásticos de observação, 18 mm, com tampas	4/pct	4660004

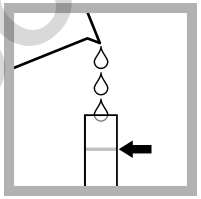
Itens opcionais

Descrição	Unidade	Nº de item
Tampas para tubos plásticos de visualização (4660004)	4/pct	4660014
Tubos de vidro de visualização, vidro, 18 mm	6/pct	173006
Tampões para tubos de vidro de 18 mm e AccuVac Ampuls	6/pct	173106
Água, deionizada	500 ml	27249

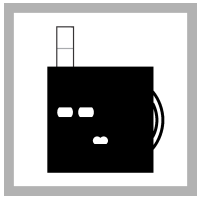
Procedimento de Teste — Cloro livre ou total, faixa baixa (0–0,68 mg/L Cl_2)



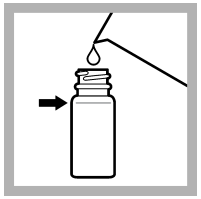
1. Instale o adaptador de percurso longo na caixa de comparação de cor.



2. Encha um tubo até a primeira linha com a amostra.



3. Insira o tubo na abertura esquerda da caixa de comparação de cor.



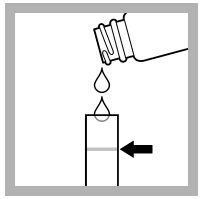
4. Encha a garrafa até a marca de 25 ml com a amostra.



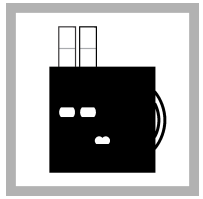
5. Adicione um sachê de pó reagente de cloro (Livre ou Total), DPD. Revolva para misturar.



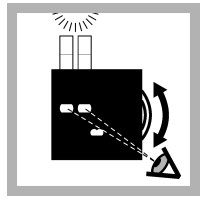
6. Para cloro livre, leia o resultado dentro de 1 minuto. Para cloro total, aguarde 3 minutos. Leia o resultado em 6 minutos.



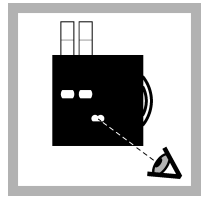
7. Encha um segundo tubo até a linha superior com a amostra preparada.



8. Coloque o segundo tubo na caixa de comparação de cor.



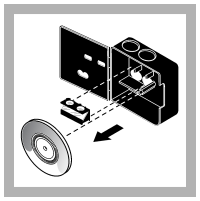
9. Coloque a caixa de comparação de cor sob uma fonte de luz. Vire o disco de cor para verificar a correspondência de cor.



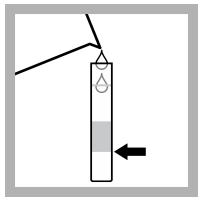
10. Leia o valor na janela de nível. Divida o valor por 5 para obter o resultado em mg/L.

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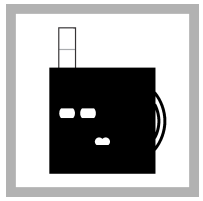
Procedimento de Teste — Cloro livre ou total, faixa média (0–3,4 mg/L Cl_2)



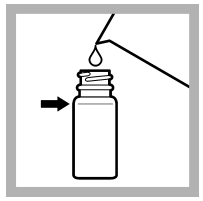
1. Se instalado, remova o adaptador de percurso longo.



2. Encha um tubo até a primeira linha (5 ml) com a amostra.



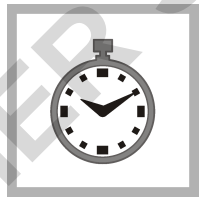
3. Insira o tubo na abertura esquerda da caixa de comparação de cor.



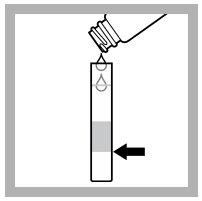
4. Encha a garrafa até a marca de 25 ml com a amostra.



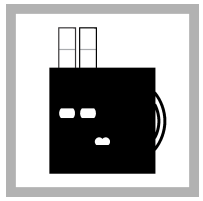
5. Adicione um sachê de pó reagente de cloro (Livre ou Total), DPD. Revolva para misturar.



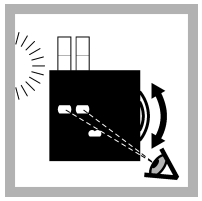
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Para cloro total, aguarde 3 minutos. Leia o resultado em 6 minutos.



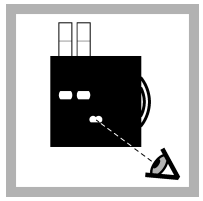
7. Encha um segundo tubo até a primeira linha (5 ml) com a amostra preparada.



8. Coloque o segundo tubo na caixa de comparação de cor.



9. Coloque a caixa de comparação de cor na frente de uma fonte de luz. Vire o disco de cor para verificar a correspondência de cor.



10. Faça a leitura do resultado em mg/l na janela da escala.

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