



## Medonic M-Series Maintenance

The intent of this document is to supplement the information already contained in the Medonic M-Series User's Manual (Section 8) and the Boule Cleaning Kit (1504111) package insert.

Instrument Overview



Part	Function
1. Display	LCD touch screen with incorporated keyboard and numerical pad.
2. Open Tube (OT) sample probe	Aspirates whole blood from open sample tube.
3. Pre-dilute (PD) probe/ Dispenser	Aspirates pre-diluted samples and dispenses diluent. Used in monthly cleaning procedure.
4. Micropipette Adapter (MPA/MC)	Micro Pipette Adapter enables users to analyze 20 µl of blood.
5. Mixer (optional)	Uniformly mixes samples.
6. Cap Pierce (CP) (optional)	Analyzes samples with decreased risk of blood contact.
7. Autoloader (AL) (optional)	Enables consecutive samples to be analyzed automatically.

### Daily Maintenance

1. Clean the **Open Tube** sample probe and **Pre-dilute** probe using an alcohol wipe.
2. Remove possible traces of salt crystals or blood on the **Open Tube** probe, probe rinse cup, **Pre-dilute** probe, and around the top of the **Cap Pierce** or **Autoloader** using a paper tissue with a disinfecting solution.
3. Clean outside of the instrument with soft cloth and DI water if needed.

### Monthly Cleaning Procedure (~10 minutes)

1. Fill a cup with 10 mL 2% hypochlorite from Boule Cleaning Kit (White Cap).
2. Fill another cup with 18 mL of diluent. The diluent can be obtained by using the dispense function on the M-Series.  
To dispense diluent:
  - a. Press [Dispense] from Main Menu.
  - b. Hold empty cup under **Pre-dilute** probe (1:200 probe on right side).
  - c. Press 1:200 Start plate behind probe
  - d. Discard first dispense.
  - e. Repeat steps b-c four times to achieve 18 mL of diluent.
  - f. Press [Cancel] to exit the dispense function.
3. Aspirate the hypochlorite (White Cap) as a **Pre-dilute** sample (1:200 probe) **twice**.  
\* Note: Pre-dilute mode has intentional delay. Press and hold start plate to start cycle (keep probe submerged in hypochlorite solution until the screen displays "Now Analyzing").

# Medonic M Series Service Manual

**Lauren Gardner**



## **Medonic M Series Service Manual:**

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**Service Manual for Morris Minor** ,1955     **GH Series Sigma Service Manual** ,1982     Workshop Manual Minx Series I to V, Husky Series I to III, Cob Series I to III. Rootes Limited. Service Division,1965     **Multicare Series Models 302 & 304 Rigel**,198?     ... **Oldsmobile Service Manual** General Motors Corporation. Oldsmobile Division,19??

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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical x 100 what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no<sub>2</sub><sup>+</sup> which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4.0 ml of nitric acid and 4.0 ml of sulfuric acid and will then react with 4.5 ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important

process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

lab report nitration of bromobenzene ipl org - Feb 22 2023

lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group